

Supporting Information

Steric and dispersion effect of chiral diphosphine ligand on copper-catalyzed enantioselective incorporation of CO₂ with styrene: A computational study

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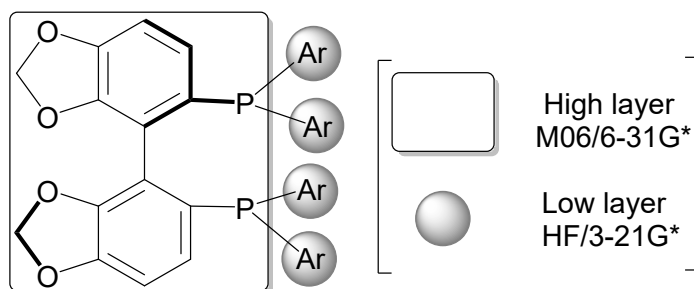
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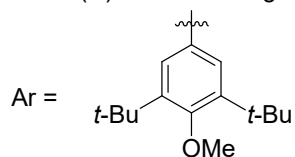
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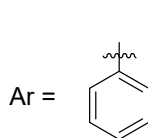
S1: Computational details



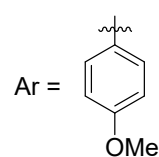
(*R*)-SEGPHOS ligand



(*R*)-DTBM-SEGPHOS (**L1**)



(*R*)-SEGPHOS (**L2**)



(*R*)-OMe-SEGPHOS (**L3**)

Optimization and frequency calculation in gas phase: ONIOM[M06/6-31G*//HF/3-21G*]

Int = ultrafine and SCF keywords were used

Single-point energy calculation: M06/6-31++G** 5d

For single-point energy calculation, the SCRF = (SMD, ExternalIteration, Cyclohexane) keyword was used.

S2: A benchmark study for test the reliability of the computational method

To probe the reliability of the ONIOM[M06/6-31G*//HF/3-21G*] method used for the present computational study, the competing diastereoisomeric TSs in the **L2**-CuH system were re-optimized with full DFT calculations at the M06/6-31G* level. Then, single-point energy in cyclohexane solvent was calculated at the M06/6-31++G** level on the M06/6-31G*-optimized structures using the continuum solvation model (SMD). This approach is labeled as the Method II. As shown in Figure S1, for both of 1,2-hydrocupration and CO₂ insertion into Cu–C bond steps, the calculated free energy differences ($\Delta\Delta G_1^\ddagger$ and $\Delta\Delta G_2^\ddagger$) between the corresponding competing diastereoisomeric TSs are comparable using the two methods. Thus, we can believe that the present ONIOM calculations for the SEGPHOS ligands is acceptable.

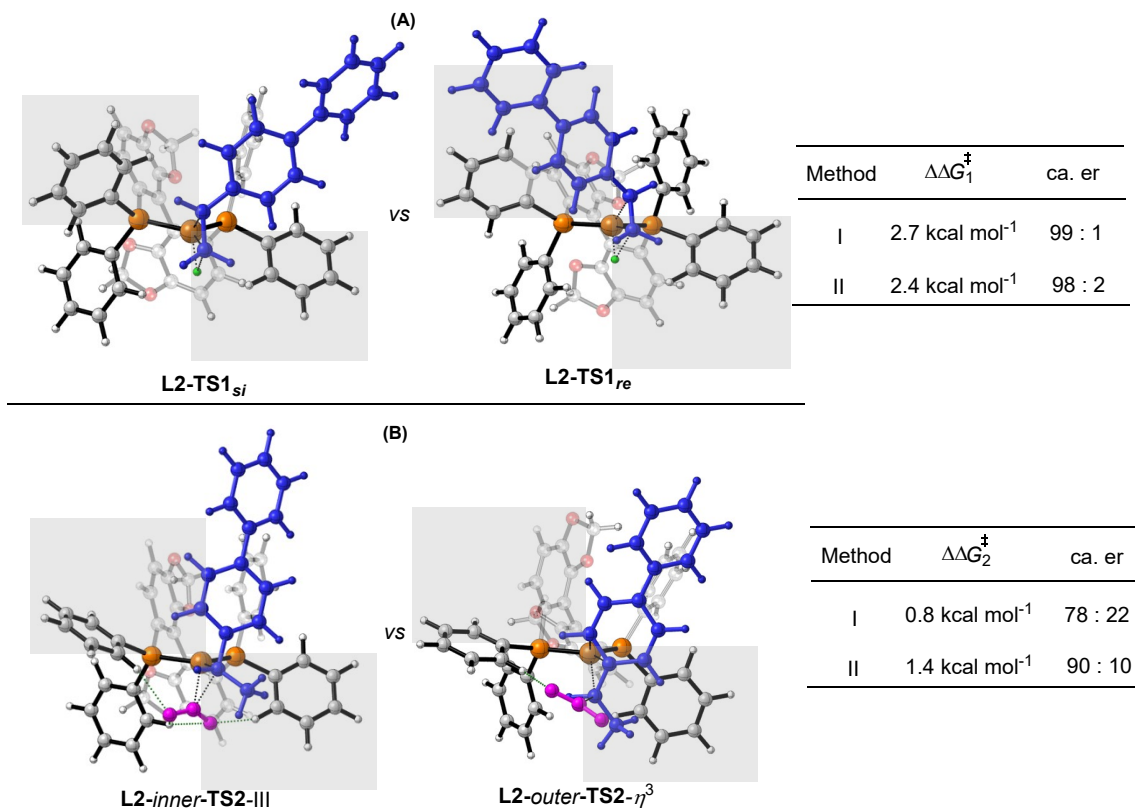


Figure S1. (A) Optimized structures of the two diastereoisomeric TSs for 1,2-hydrocupration of **1a** with the **L2**-CuH catalyst. (B) Optimized structures of the two competing TSs for *inner*- and *outer*-sphere CO₂ attack of the (*S*)-alkylcopper(I) IM **L2**-(*S*)-**IM1**.

S3: Supplementary calculations

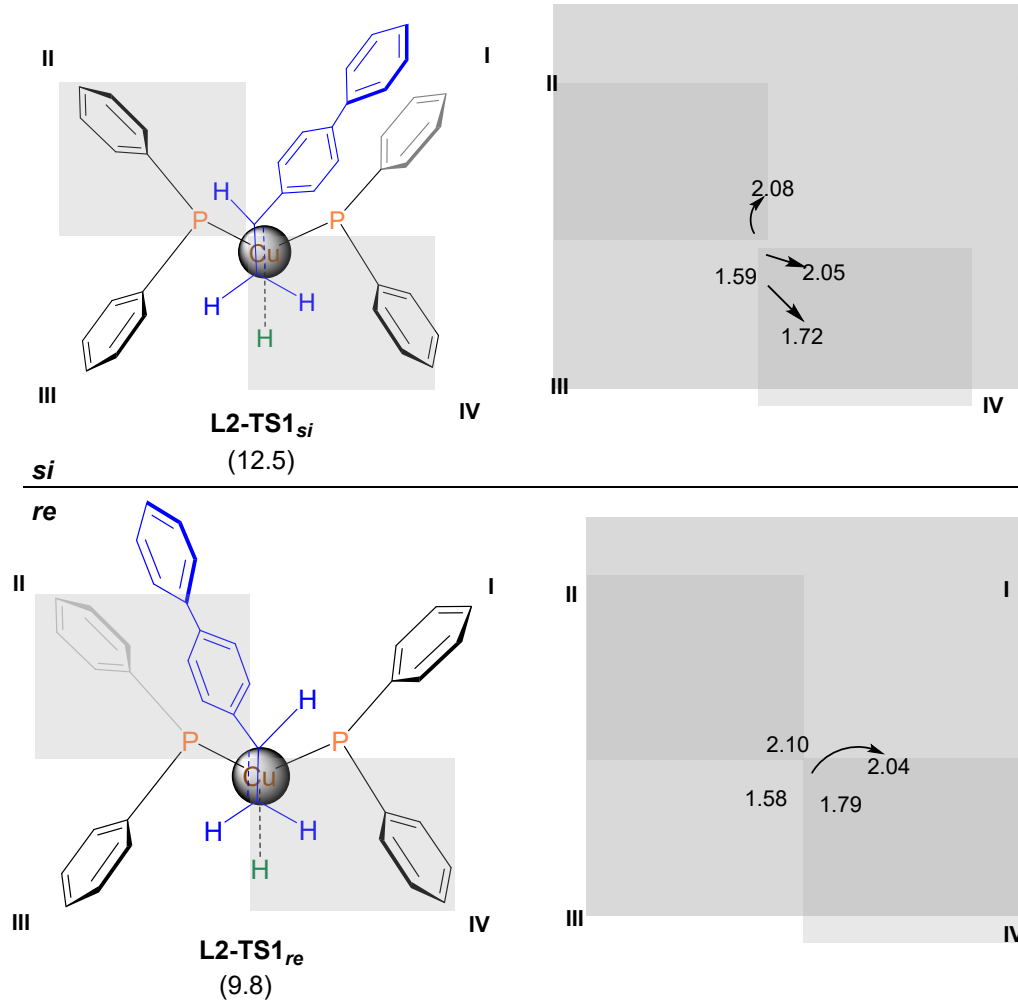
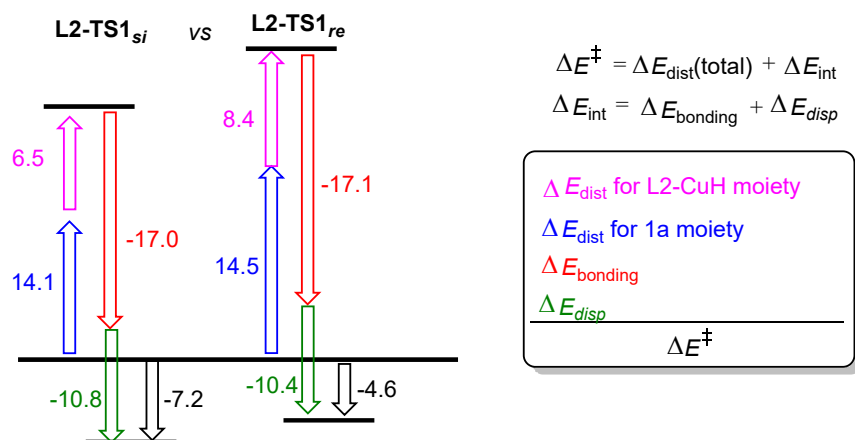


Figure S2. Optimized structures of the two diastereoisomeric TSs for 1,2-hydrocupration of **1a** with the **L2-CuH** catalyst. The substrate moiety is highlight in blue. The relative free energy (in kcal mol⁻¹) are given in parenthesis. The critical atomic distances are labeled in Å.

(A) Distortion/interaction analysis



(B) Intermolecular non-covalent interactions

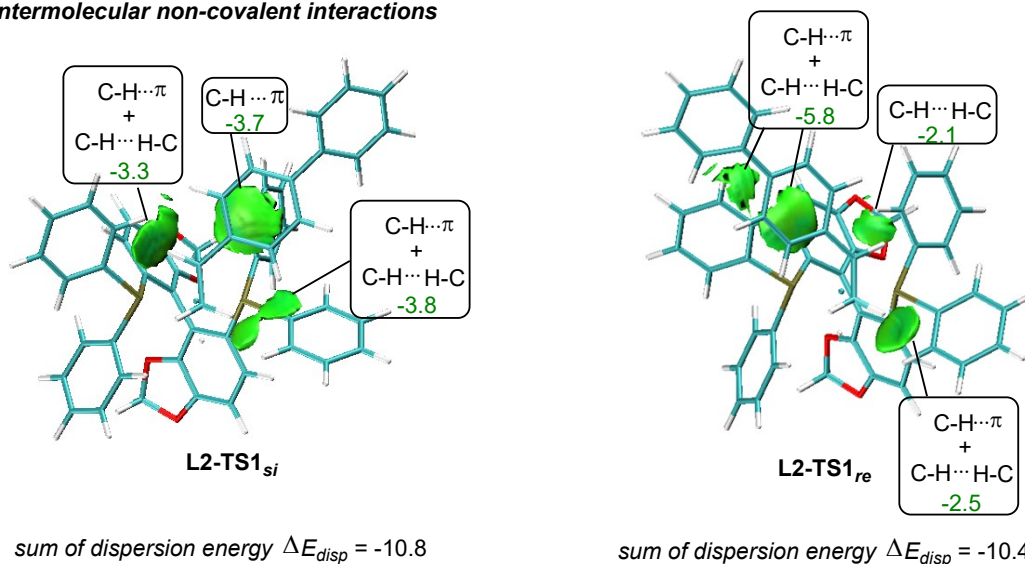


Figure S3. Origin of enantioselectivity in the 1,2-hydrocupration of **1a** with the L2-CuH catalyst. (A) Distortion/interaction analysis. (B) Visualization of intermolecular NCI analysis. The buried surface areas (\AA^2) and dispersion energy (in kcal mol^{-1}) are provided below.

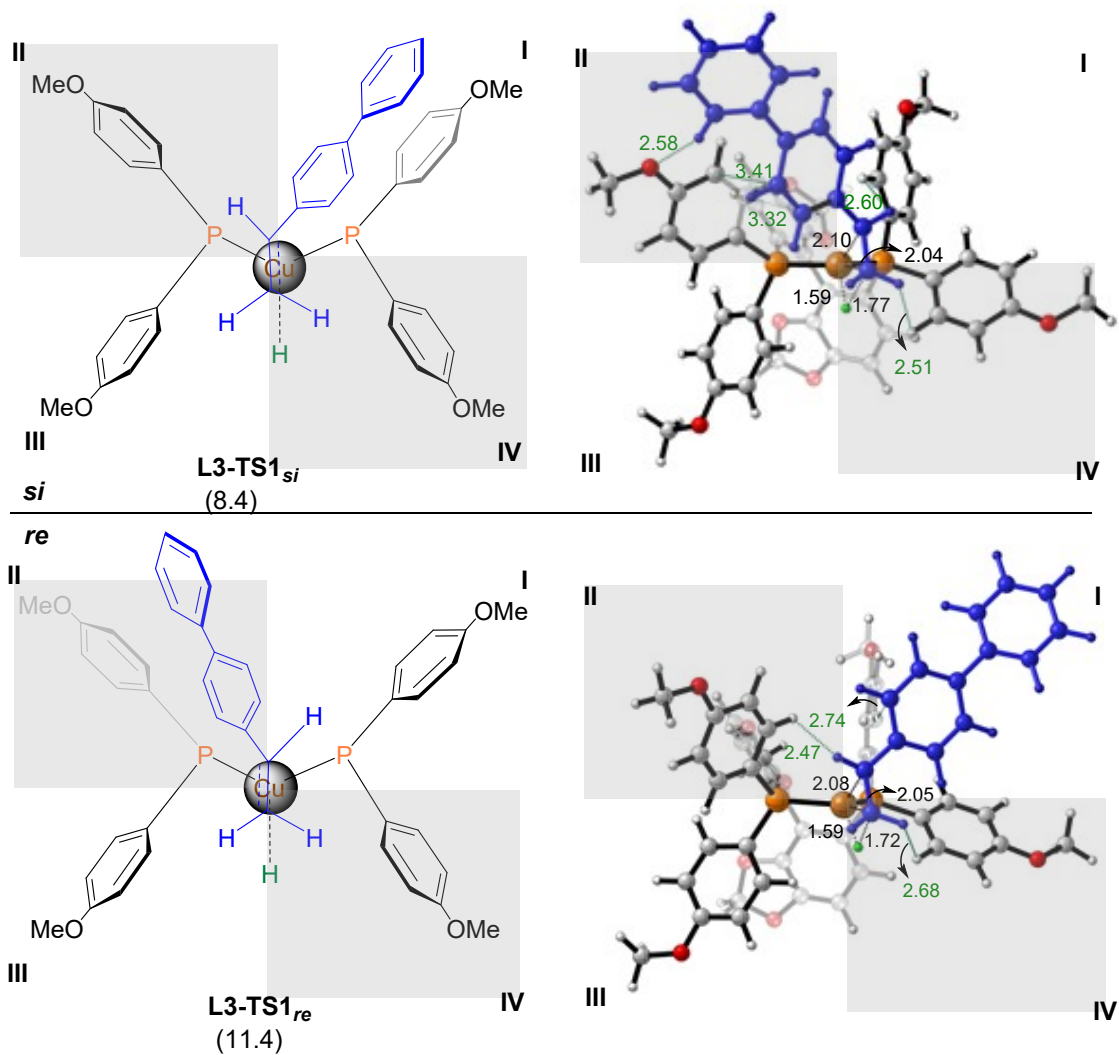
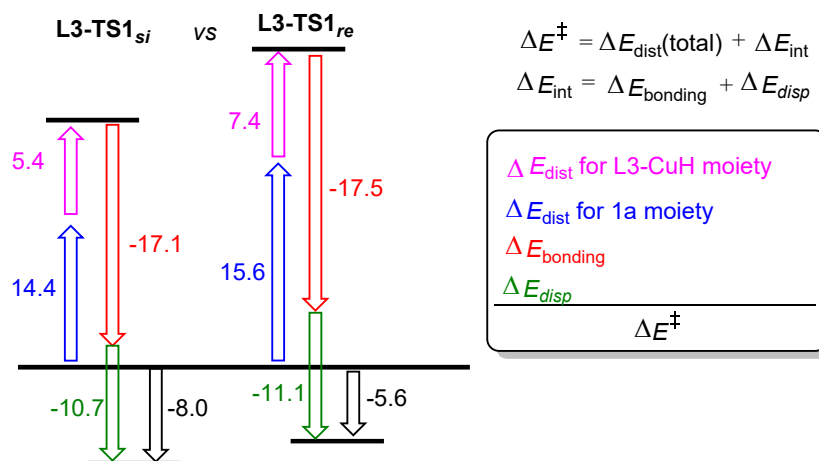


Figure S4. Optimized structures of the two diastereomeric TSs for 1,2-hydrocupration of **1a** with the L3-CuH catalyst. The substrate moiety is highlight in blue. The relative free energy (in kcal mol⁻¹) are given in parenthesis. The critical atomic distances are labeled in Å.

(A) Distortion/interaction analysis



(B) Intermolecular non-covalent interactions

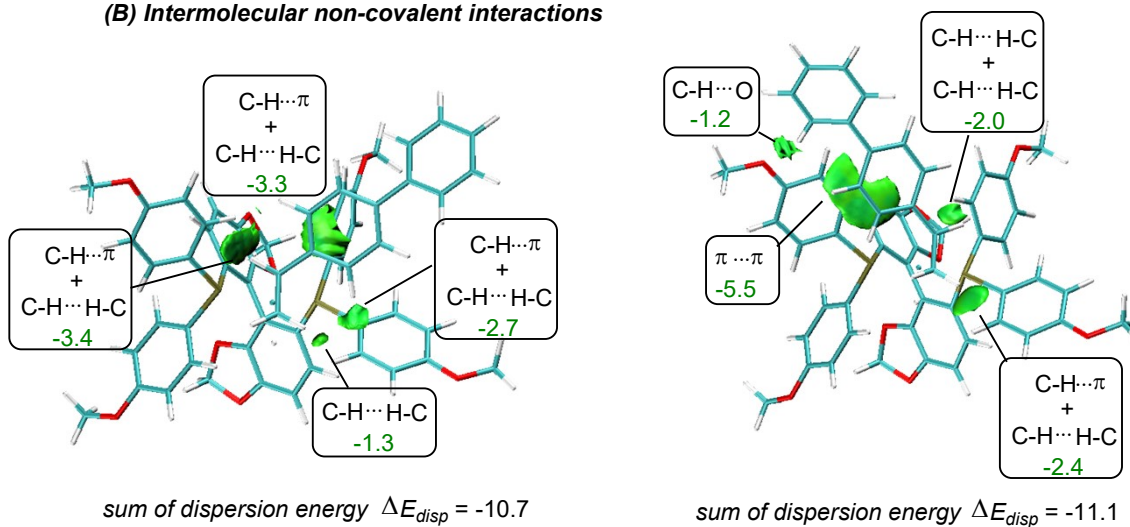


Figure S5. Origin of enantioselectivity in the 1,2-hydrocupration of **1a** with the L3-CuH catalyst. (A) Distortion/interaction analysis. (B) Visualization of intermolecular NCI analysis. The buried surface areas (\AA^2) and dispersion energy (in kcal mol^{-1}) are provided below.

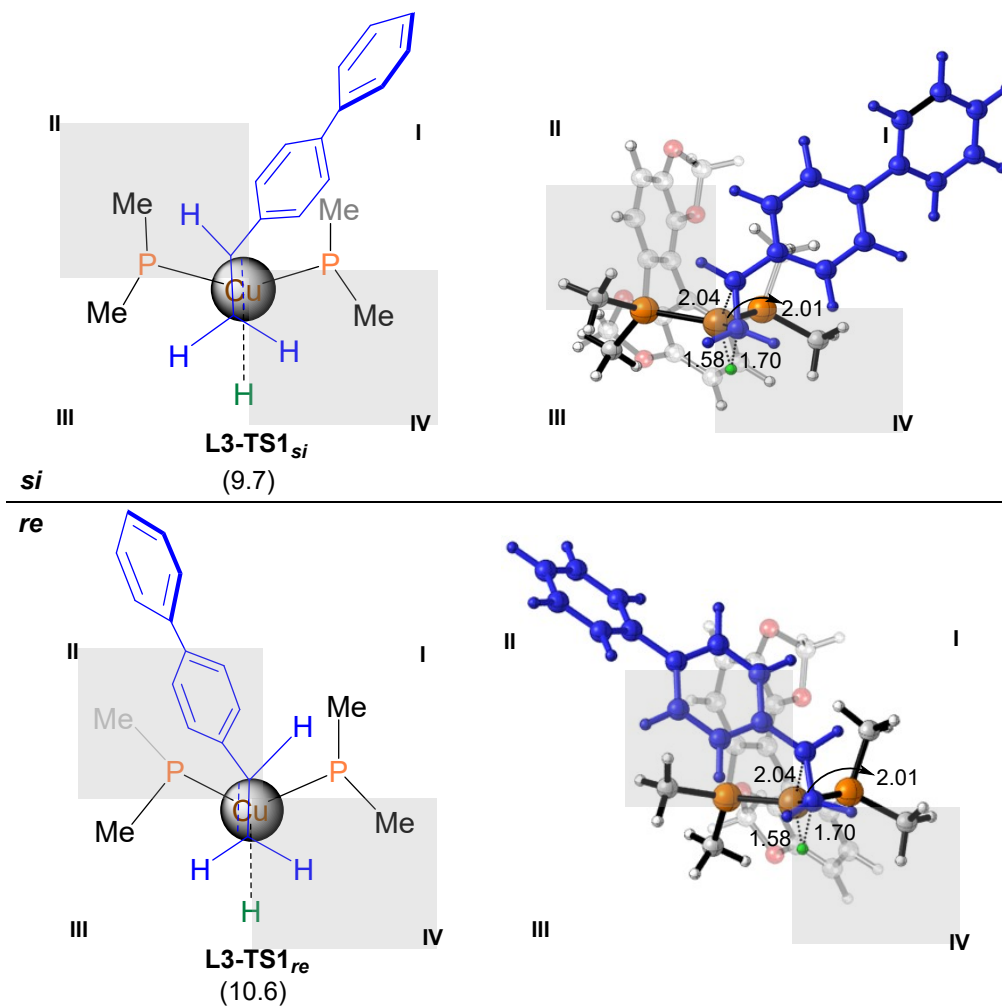
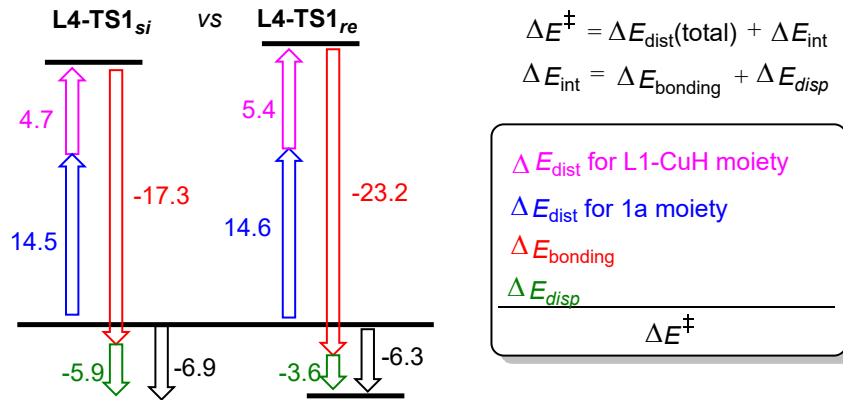


Figure S6. Optimized structures of the two diastereoisomeric TSs for 1,2-hydrocupration of 1a with the L4-CuH catalyst. The substrate moiety is highlight in blue. The relative free energy (in kcal mol⁻¹) are given in parenthesis. The critical atomic distances are labeled in Å.

(A) Distortion/interaction analysis



(B) Intermolecular non-covalent interactions

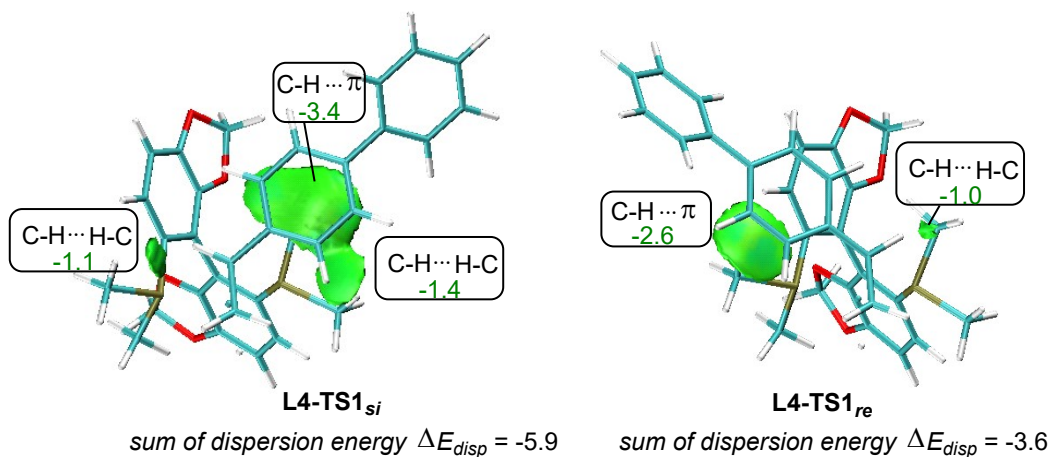


Figure S7. Origin of enantioselectivity in the 1,2-hydrocupration of **1a** with the L4-CuH catalyst. (A) Distortion/interaction analysis. (B) Visualization of intermolecular NCI analysis. The buried surface areas (\AA) and dispersion energy (in kcal mol^{-1}) are provided below.

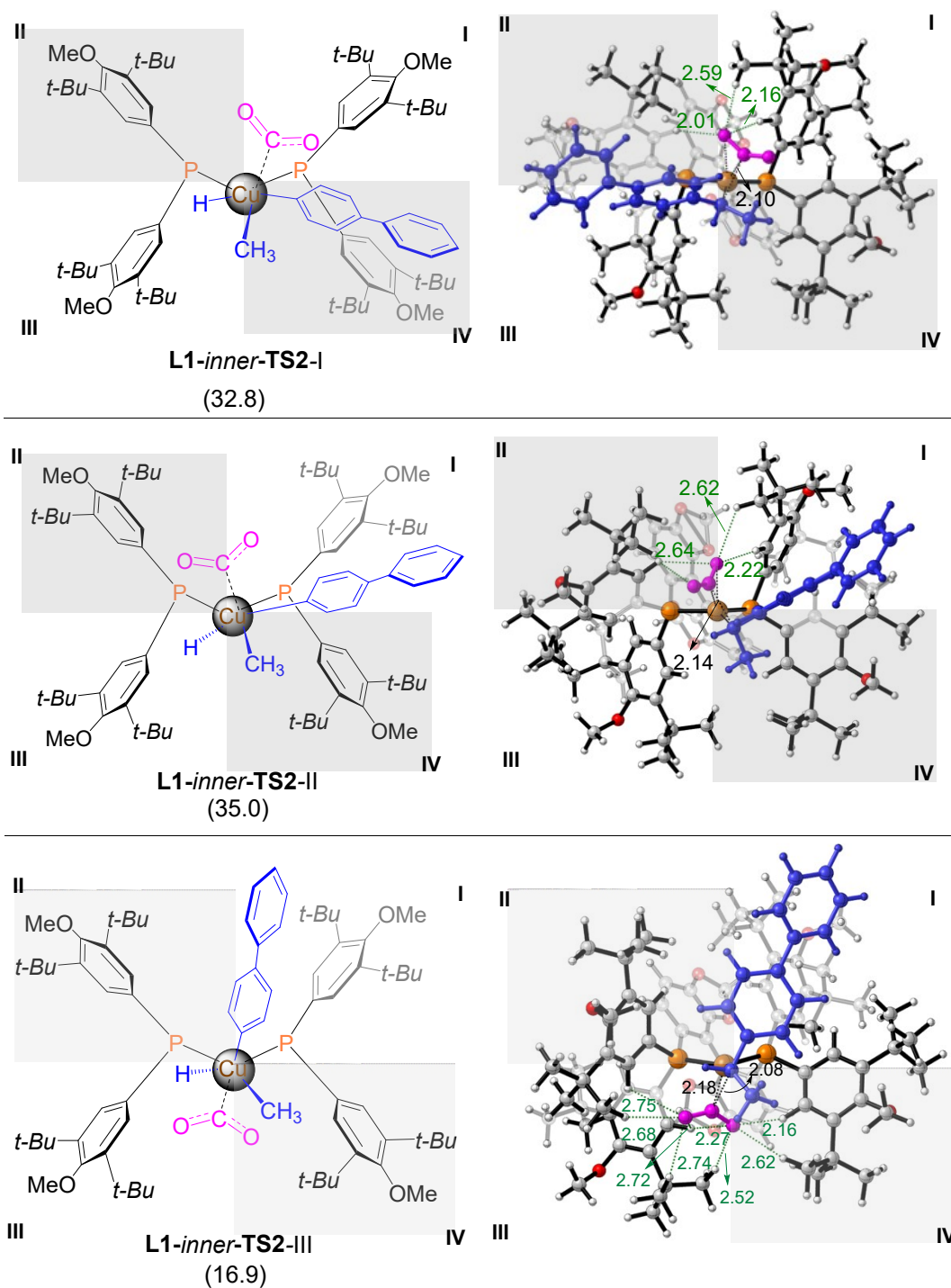


Figure S8. Optimized geometries of three possible TSs for the *inner-sphere* CO₂ attack of the L1-ligated (*S*)-alkylcopper(I) IM. The substrate and CO₂ moiety is highlight in blue and pink, respectively. The free energy barriers relative to free (*S*)-alkylcopper(I) IM L1-(*S*)-IM1 and CO₂ are given in kcal mol⁻¹. The critical atomic distances are labeled in Å.

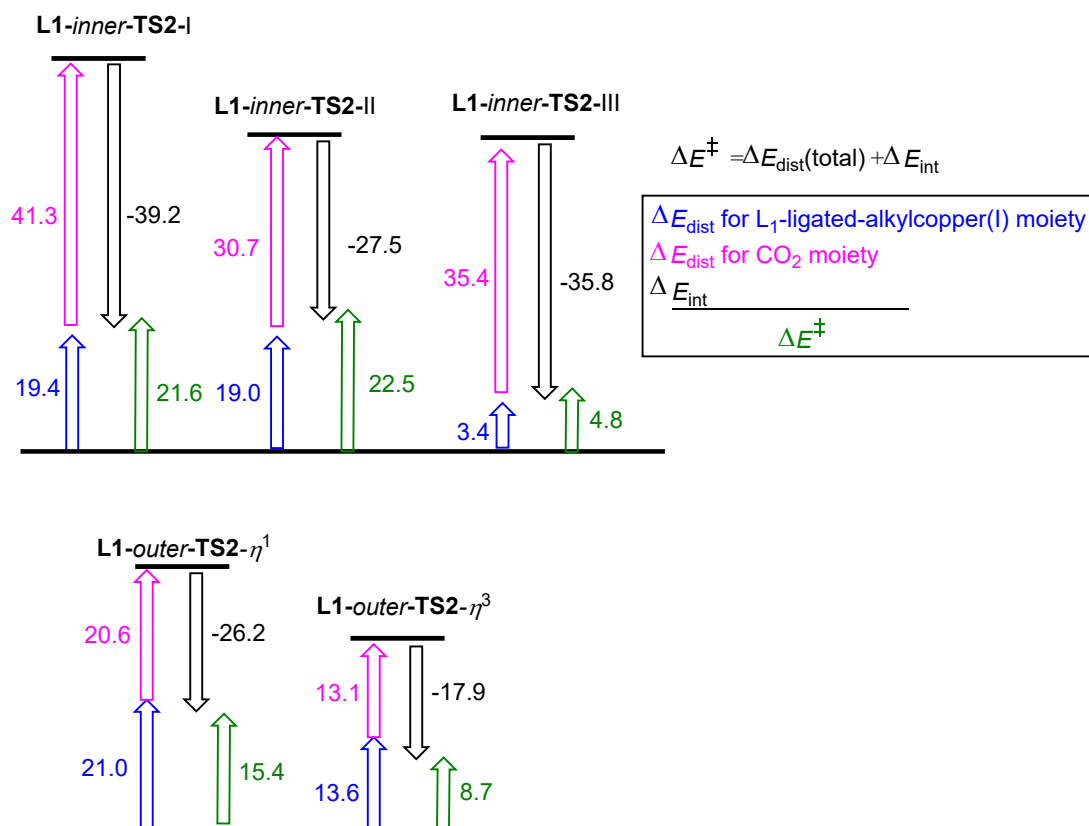


Figure S9. Distortion/interaction analysis of the TSs for CO₂ attack of the L1-ligated (*S*)-alkylcopper(I) IM .

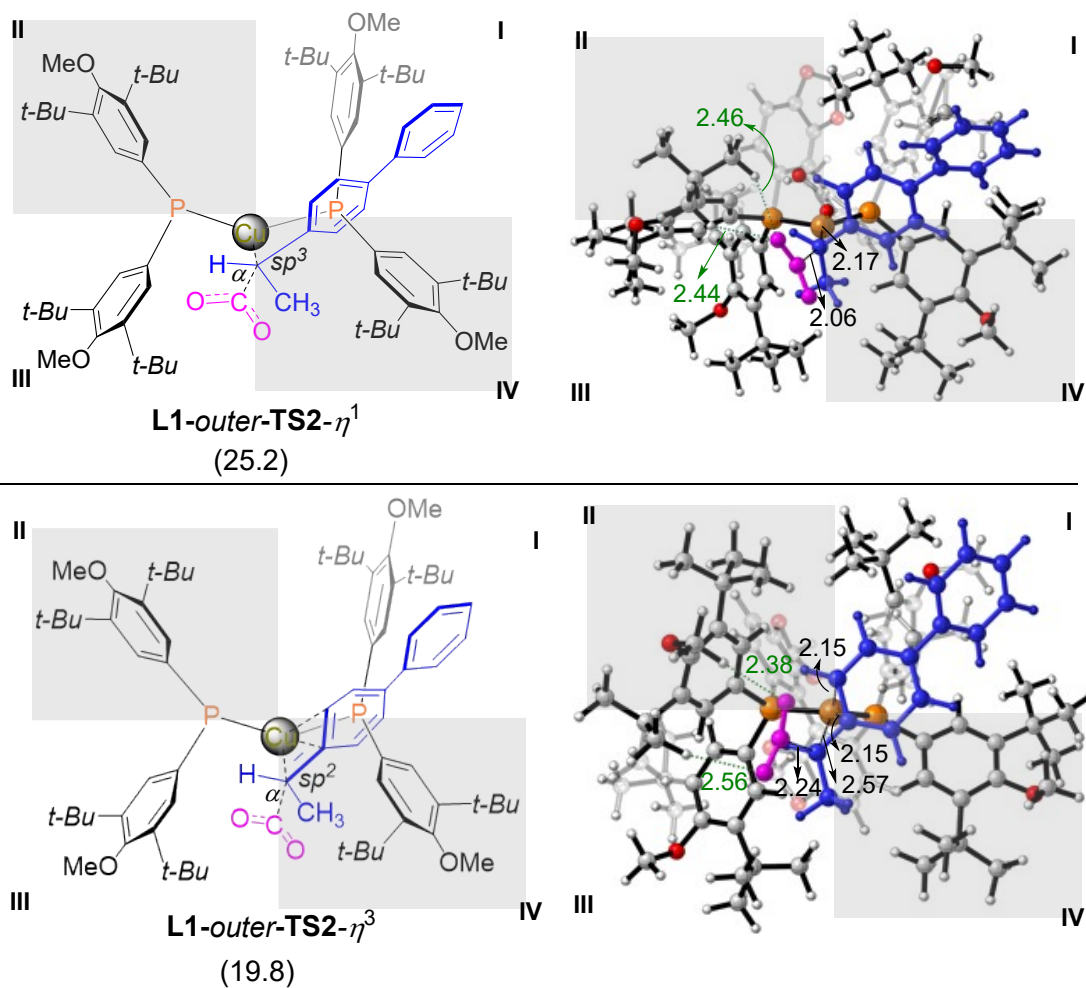


Figure S10. Optimized geometries of TSs for the *outer*-sphere CO₂ insertion into insertion into the (*S*)-alkylcopper(I) IM L1-(*S*)-IM1. The substrate and CO₂ moiety is highlight in blue and pink, respectively. The free energy barriers relative to free (*S*)-alkylcopper(I) IM L1-(*S*)-IM1 and CO₂ are given in kcal mol⁻¹. The critical atomic distances are labeled in Å.

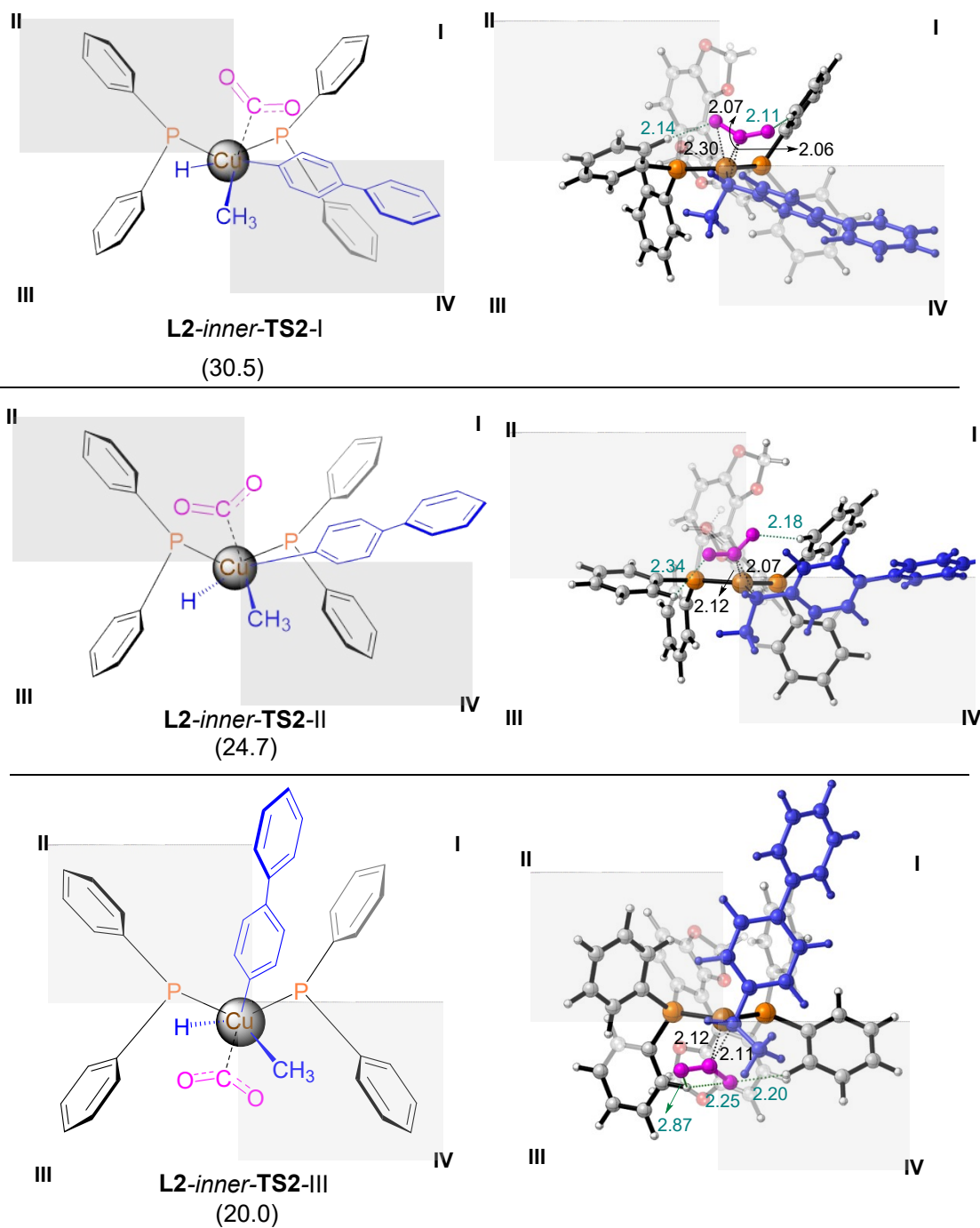


Figure S11. Optimized geometries of three possible TSs for the *inner*-sphere CO₂ attack of the L2-ligated (*S*)-alkylcopper(I) IM. The substrate and CO₂ moiety is highlight in blue and pink, respectively. The free energy barrier relative to free (*S*)-alkylcopper(I) IM L2-(*S*)-IM1 and CO₂ are given in kcal mol⁻¹. The critical atomic distances are labeled in Å.

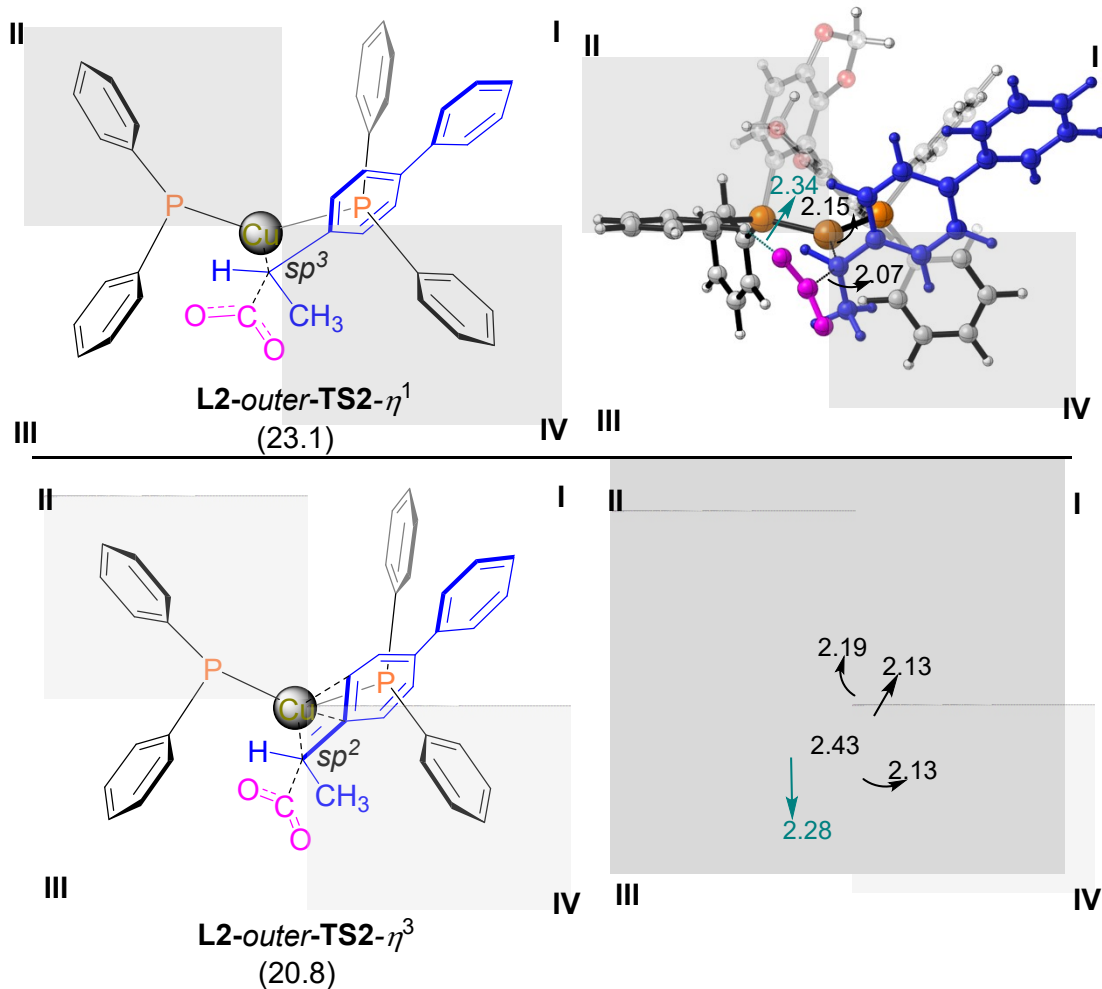


Figure S12. Optimized geometries of three possible TSs for the *inner*-sphere CO₂ attack of the L2-ligated (*S*)-alkylcopper(I) IM. The substrate and CO₂ moiety is highlight in blue and pink, respectively. The free energy barrier relative to free (*S*)-alkylcopper(I) IM L2-(*S*)-IM1 and CO₂ are given in kcal mol⁻¹. The critical atomic distances are labeled in Å.

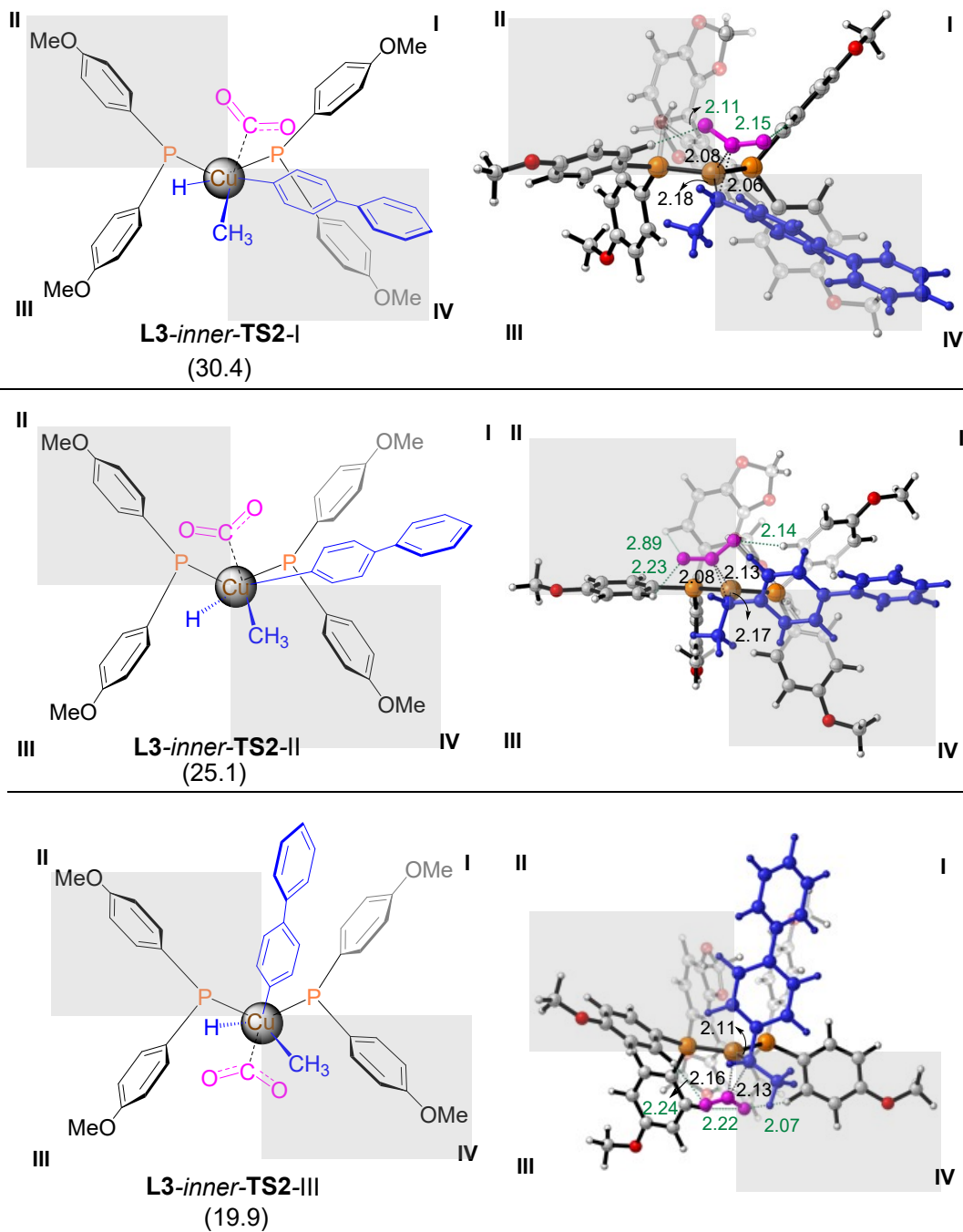


Figure S13. Optimized geometries of three possible TSs for the *inner*-sphere CO_2 attack of the L3-ligated (*S*)-alkylcopper(I) IM. The substrate and CO_2 moiety is highlight in blue and pink, respectively. The free energy barrier relative to free (*S*)-alkylcopper(I) IM L3-(*S*)-IM1 and CO_2 are given in kcal mol^{-1} . The critical atomic distances are labeled in Å.

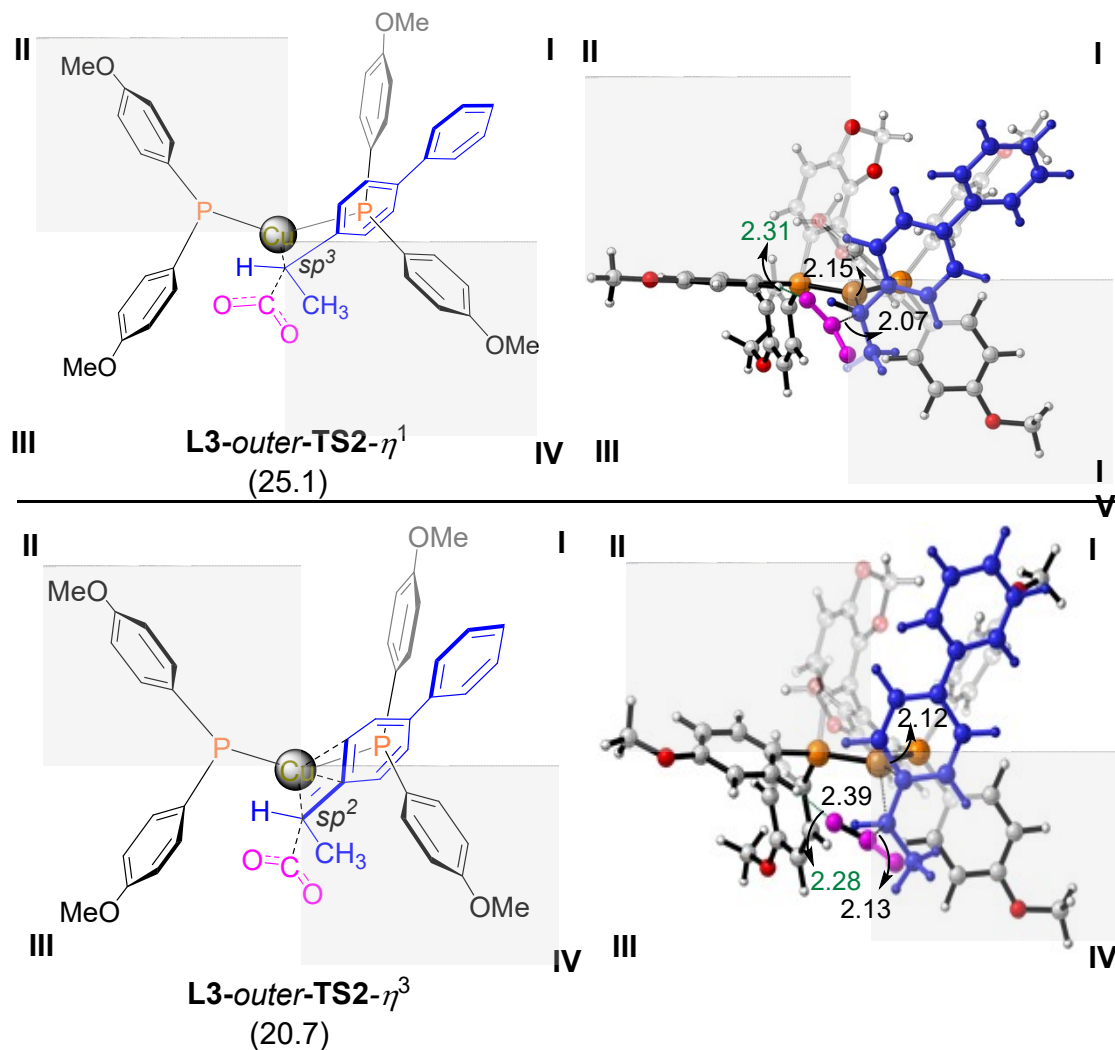


Figure S14. Optimized geometries of three possible TSs for the *inner*-sphere CO₂ attack of the L3-ligated (*S*)-alkylcopper(I) IM. The substrate and CO₂ moiety is highlight in blue and pink, respectively. The free energy barrier relative to free (*S*)-alkylcopper(I) IM L3-(*S*)-IM1 and CO₂ are given in kcal mol⁻¹. The critical atomic distances are labeled in Å.

S4: Details for computing dispersion interaction energies between substituents on the ligand and on the substrate

For the 1,2-hydrocupration step, the dispersion interaction energies (ΔE_{disp}) between the *P*-substituents of the ligand and the substituents of the substrate **1a** in the transition states (**TS1s**) were computed using the following procedures. First, a van der Waals complex between the substituent on the ligand and the substituent on the substrate were built using the optimized TS geometry by removing other atoms. An H atom was added to convert each substituent to a closed-shell molecule by replacing the removed C–C or C–P bond with a C–H bond with a distance of 1.07 Å. The dispersion interaction energy (ΔE_{disp}) was calculated using the Eq. 1.

$$\Delta E_{\text{disp}} = E_{\text{disp}}(\text{lig+sub}) - [E_{\text{disp}}(\text{sub}) + E_{\text{disp}}(\text{lig})] \quad \text{Eq. 1}$$

In Eq.1, $E_{\text{disp}}(\text{lig+sub})$ is the dispersion energy of the van der Waals complex of substituents on the ligand and on the substrate, $E_{\text{disp}}(\text{sub})$ and $E_{\text{disp}}(\text{lig})$ represent the dispersion energies of the substituent on the substrate and the substituent on the ligand, respectively. Here, the dispersion energies (*i.e.* $E_{\text{disp}}(\text{lig+sub})$, $E_{\text{disp}}(\text{sub})$, and $E_{\text{disp}}(\text{lig})$) were calculated with Grimme's DFT-D3 program using HF as the reference "functional" and zero-damping. Because the HF method can be considered "dispersion-free", the D3 dispersion correction for HF describes the overall dispersion energy for each fragment. Then, the dispersion energy component of the interaction energy between the two substituents (*i.e.* the dispersion interaction energy, ΔE_{disp}) can be calculated using Eq. 1. This approach for dispersion energy calculations have been previously reported in the literature.¹⁻⁴

For the CO₂ insertion into the Cu–C bond step, the dispersion interaction energies (ΔE_{disp}) between the *P*-substituents of the ligand and oxygen atoms of CO₂ in the transition states (**TS2s**) were also computed using the similar procedures as aforementioned.

Reference.

1. Goerigk, L.; Collyer, C. A.; Reimers, J. R., Recommending Hartree – Fock Theory with London-Dispersion and Basis-Set-Superposition Corrections for the Optimization or Quantum Refinement of Protein Structures. *J. Phys. Chem. B* **2014**, *118*, 14612-14626.

2. Kruse, H.; Grimme, S., A geometrical correction for the inter- and intra-molecular basis set superposition error in Hartree-Fock and density functional theory calculations for largesystems. *J. Chem. Phys.* **2012**, *136*, 154101.
3. Lu, G.; Liu, R. Y.; Yang, Y.; Fang, C.; Lambrecht, D. S.; Buchwald, S. L.; Liu, P. Ligand - Substrate Dispersion Facilitates the Copper-Catalyzed Hydroamination of Unactivated Olefins. *J. Am. Chem. Soc.* **2017**, *139*, 16548-16555.
4. Dong, Y.; Schuppe, A. W.; Mai, B. K.; Liu, P.; Buchwald, S. L. Confronting the Challenging Asymmetric Carbonyl 1,2-Addition Using Vinyl Heteroarene Pronucleophiles: Ligand-Controlled Regiodivergent Processes through a Dearomatized Allyl-Cu Species. *J. Am. Chem. Soc.* **2022**, *144*, 5985-5995.

S4: Energy summary

Table S1 Energies of the stationary points involved **L1-CuH** system.

| Species | H_c^a (a.u.) | G_c^b (a.u.) | E_{sol}^c (a.u.) | ΔH_{sol}^d (kcal mol ⁻¹) | ΔG_{sol}^e (kcal mol ⁻¹) |
|---|-------------------|-------------------|-----------------------|---|---|
| CO ₂ | 0.01576 | -0.00994 | -188.50557 | - | - |
| 1a | 0.22719 | 0.17422 | -540.30333 | - | - |
| L1-CuH | 1.80391 | 1.59492 | -5803.03003 | - | - |
| L1-TS1_{si} | 2.03262 | 1.79782 | -6343.34528 | -8.4 | 8.6 |
| L1-TS1_{re} | 2.03263 | 1.79900 | -6343.34210 | -6.4 | 11.4 |
| L1-(S)-IM1 | 2.03824 | 1.80287 | -6343.39224 | -34.3 | -17.7 |
| L1-(R)-IM1 | 2.03818 | 1.80365 | -6343.39369 | -35.3 | -18.1 |
| L1-inner-TS2-I | 2.05479 | 1.81382 | -6531.86341 | -14.2 | 15.1 |
| L1-inner-TS2-II | 2.05445 | 1.81580 | -6531.86188 | -13.4 | 17.3 |
| L1-inner-TS2-III | 2.05511 | 1.81524 | -6529.83209 | -30.8 | -0.8 |
| L1-outer-TS2-η^1 | 2.05390 | 1.81152 | -6531.87331 | -20.9 | 7.5 |
| L1-outer-TS2-η^3 | 2.05403 | 1.81347 | -6531.88388 | -27.5 | 2.1 |
| L1-(S)-IM2 | 2.05763 | 1.81617 | -6531.94430 | -63.1 | -34.1 |
| L1-(R)-IM2 | 2.05771 | 1.81701 | -6531.93004 | -54.1 | -24.7 |

a: H_c is the enthalpy correction calculated at the ONIOM(M06/6-31G**/HF/3-21G*) level in gas phase at 313.15 K;

b: G_c is the Gibbs free energy correction calculated at the ONIOM(M06/6-31G**/HF/3-21G*) level in gas phase at 313.15 K;

c: E_{sol} is the electron energy in the solvent after PCM correction calculated at the M06/6-31++G** level;

d: ΔH_{sol} is the relative enthalpy energy in the solvent at 298 K. $H_{sol} = H_c + E_{sol} + 0.00301$.

e: ΔG_{sol} is the relative Gibbs free energy in the solvent at 298 K. $G_{sol} = G_c + E_{sol} + 0.00301$.

Table S2 Energies of the stationary points involved **L2-CuH** system.

| Species | H_c (a.u.) | G_c (a.u.) | E_{sol} (a.u.) | ΔH_{sol} (kcal mol ⁻¹) | ΔG_{sol} (kcal mol ⁻¹) |
|---|-----------------|-----------------|---------------------|---|---|
| L2-CuH | 0.63834 | 0.53081 | -4088.12698 | - | - |
| L2-TS1_{si} | 0.86856 | 0.73438 | -4628.44320 | -7.9 | 9.8 |
| L2-TS1_{re} | 0.86864 | 0.86864 | -4628.43909 | -5.3 | 12.5 |
| L2-(S)-IM1 | 0.87360 | 0.73732 | -4628.48644 | -31.9 | -15.6 |
| L2-(R)-IM1 | 0.87368 | 0.73801 | -4628.48649 | -31.8 | -15.1 |
| L2-inner-TS2-I | 0.89043 | 0.74947 | -4816.96248 | -14.5 | 15.0 |
| L2-inner-TS2-II | 0.88971 | 0.74853 | -4816.97075 | -20.2 | 9.2 |
| L2-inner-TS2-III | 0.89087 | 0.75155 | -4816.98133 | -26.1 | 4.4 |
| L2-outer-TS2-η^1 | 0.88946 | 0.74556 | -4816.97030 | -20.1 | 7.6 |
| L2-outer-TS2-η^3 | 0.88972 | 0.88972 | -4816.97639 | -23.7 | 5.2 |
| L2-(S)-IM2 | 0.89323 | 0.75303 | -4817.02989 | -55.1 | -25.1 |
| L2-(R)-IM2 | 0.89289 | 0.75366 | -4817.03141 | -56.3 | -25.7 |

Table S3 Energies of the stationary points involved **L3-CuH** system.

| Species | H_c (a.u.) | G_c (a.u.) | E_{sol} (a.u.) | ΔH_{sol} (kcal mol ⁻¹) | ΔG_{sol} (kcal mol ⁻¹) |
|---|-----------------|-----------------|---------------------|---|---|
| L3-CuH | 0.78914 | 0.65949 | -4545.99316 | - | - |
| L3-TS1_{si} | 1.01942 | 0.86279 | -5086.30922 | -7.9 | 8.4 |
| L3-TS1_{re} | 1.01942 | 0.86383 | -5086.30540 | -5.5 | 11.4 |
| L3-(S)-IM1 | 1.02436 | 0.86522 | -5086.35255 | -32.0 | -17.3 |
| L3-(R)-IM1 | 1.02441 | 0.86651 | -5086.35300 | -32.3 | -16.8 |
| L3-inner-TS2-I | 1.04126 | 0.87803 | -5274.82948 | -15.2 | 13.1 |
| L3-inner-TS2-II | 1.04079 | 0.87782 | -5274.83772 | -20.7 | 7.8 |
| L3-inner-TS2-III | 1.04169 | 0.87973 | -5274.84784 | -26.5 | 2.6 |
| L3-outer-TS2-η^1 | 1.03826 | 0.87802 | -5274.83780 | -22.3 | 7.8 |
| L3-outer-TS2-η^3 | 1.04057 | 0.87656 | -5274.84337 | -24.4 | 3.4 |
| L3-(S)-IM2 | 1.04406 | 0.88158 | -5274.89658 | -55.6 | -26.8 |
| L3-(R)-IM2 | 1.04351 | 0.88172 | -5274.89679 | -56.1 | -26.9 |

Table S4 Energies of the stationary points involved **L4-CuH** system.

| Species | H_c^a (a.u.) | G_c^b (a.u.) | E_{sol}^c (a.u.) | ΔH_{sol}^d (kcal mol ⁻¹) | ΔG_{sol}^e (kcal mol ⁻¹) |
|----------------------------|-------------------|-------------------|-----------------------|---|---|
| L4-CuH | 0.38258 | 0.29786 | -3321.74309 | - | - |
| L4-TS1_{si} | 0.61099 | 0.50147 | -3862.05742 | -8.0 | 9.7 |
| L4-TS1_{re} | 0.61108 | 0.50214 | -3862.05653 | -7.4 | 10.6 |
| L4-(S)-IM1 | 0.61573 | 0.50418 | -3862.09824 | -30.5 | -13.7 |
| L4-(R)-IM1 | 0.61601 | 0.50505 | -3862.09734 | -29.9 | -13.2 |

a: H_c is the enthalpy correction calculated at the M06/6-31G* level in gas phase at 313.15 K;

b: G_c is the Gibbs free energy correction calculated at the M06/6-31G* level in gas phase at 313.15 K;

c: E_{sol} is the electron energy in the solvent after PCM correction calculated at the M06/6-31++G** level;

d: ΔH_{sol} is the relative enthalpy energy in the solvent at 298 K. $H_{sol} = H_c + E_{sol} + 0.00301$.

e: ΔG_{sol} is the relative Gibbs free energy in the solvent at 298 K. $G_{sol} = G_c + E_{sol} + 0.00301$.

S5: Cartesian coordinates of the optimized structures involved in this work

CO₂

| | | | | | | | |
|---|-------------|-------------|--------------|---|--------------|-------------|--------------|
| 6 | 0.000000000 | 0.000000000 | 0.000000000 | 1 | -2.376664000 | 1.812431000 | -5.740144000 |
| 8 | 0.000000000 | 0.000000000 | 1.164130000 | 6 | 3.484216000 | 0.900936000 | -2.452382000 |
| 8 | 0.000000000 | 0.000000000 | -1.164130000 | 6 | 2.845343000 | 0.117567000 | -3.381025000 |

1a

| | | | | | | | |
|---|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 6 | -0.693332000 | -1.042424000 | -0.307095000 | 6 | 0.711500000 | 0.212826000 | -2.198958000 |
| 6 | -2.075591000 | -0.979807000 | -0.292099000 | 6 | 1.340123000 | 1.076820000 | -1.258388000 |
| 6 | -2.741383000 | 0.203447000 | 0.053617000 | 6 | 2.699199000 | 1.374702000 | -1.394516000 |
| 6 | -1.958625000 | 1.315830000 | 0.380872000 | 6 | -0.711500000 | -0.212826000 | -2.198958000 |
| 6 | -0.573362000 | 1.254674000 | 0.366128000 | 6 | -1.502592000 | 0.206088000 | -3.250430000 |
| 6 | 0.089650000 | 0.073018000 | 0.021557000 | 6 | -2.845343000 | -0.117567000 | -3.381025000 |
| 1 | -0.202437000 | -1.967615000 | -0.607960000 | 6 | -3.484216000 | -0.900936000 | -2.452382000 |
| 1 | -2.649915000 | -1.864523000 | -0.564218000 | 6 | -2.699199000 | -1.374702000 | -1.394516000 |
| 1 | -2.453738000 | 2.246033000 | 0.662130000 | 6 | -1.340123000 | -1.076820000 | -1.258388000 |
| 1 | 0.007303000 | 2.130401000 | 0.654474000 | 15 | 0.466129000 | 1.621458000 | 0.256416000 |
| 6 | -4.199840000 | 0.322558000 | 0.085651000 | 15 | -0.466129000 | -1.621458000 | 0.256416000 |
| 1 | -4.568241000 | 1.312549000 | 0.367402000 | 1 | 4.539245000 | 1.146235000 | -2.538108000 |
| 6 | -5.093951000 | -0.630163000 | -0.186805000 | 1 | 3.168343000 | 2.015018000 | -0.653897000 |
| 1 | -4.809094000 | -1.641718000 | -0.473734000 | 1 | -4.539245000 | -1.146235000 | -2.538108000 |
| 1 | -6.161204000 | -0.430807000 | -0.131987000 | 1 | -3.168343000 | -2.015018000 | -0.653897000 |
| 6 | 1.563071000 | 0.001034000 | 0.003021000 | 6 | -1.502592000 | -2.971899000 | 0.921051000 |
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| | | | | L1-inner-TS2-II | | | |
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| L2-TS1_{re} | | | | 6 | 1.755015000 | 2.048988000 | -1.223451000 |
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| 1 | -2.745544000 | -5.421062000 | -1.324193000 |
| 1 | 4.634128000 | -1.792830000 | 1.074791000 |
| 1 | -2.443718000 | 4.326489000 | -4.472146000 |
| 1 | -2.721380000 | 6.496021000 | -3.342446000 |
| 1 | -2.529872000 | 6.627566000 | -0.894931000 |
| 1 | 0.635362000 | 2.595767000 | 3.929421000 |
| 1 | -3.537193000 | 3.437151000 | 3.875490000 |
| 1 | -1.389658000 | 3.383318000 | 5.076448000 |

L1-(S)-IM1

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|----|--------------|--------------|--------------|
| 6 | -0.702831000 | -2.328489000 | -4.512230000 |
| 1 | -1.247051000 | -2.953046000 | -5.228477000 |
| 1 | 0.311204000 | -2.716566000 | -4.330215000 |
| 6 | -3.448229000 | -3.373374000 | 1.052476000 |
| 6 | -4.075985000 | -2.912649000 | -0.077551000 |
| 6 | -3.477924000 | -1.966187000 | -0.896721000 |
| 6 | -2.244304000 | -1.405855000 | -0.644878000 |
| 6 | -1.575537000 | -1.873989000 | 0.519249000 |
| 6 | -2.182475000 | -2.837251000 | 1.326183000 |
| 6 | -1.695258000 | -0.463357000 | -1.655620000 |
| 6 | -1.341918000 | -0.981270000 | -2.884307000 |
| 6 | -0.864659000 | -0.205762000 | -3.933979000 |
| 6 | -0.737949000 | 1.155522000 | -3.817527000 |
| 6 | -1.105622000 | 1.714499000 | -2.586918000 |
| 6 | -1.587580000 | 0.950003000 | -1.521862000 |
| 15 | 0.066805000 | -1.155136000 | 0.927163000 |
| 15 | -1.728672000 | 1.735888000 | 0.122154000 |
| 1 | -3.906627000 | -4.115442000 | 1.700283000 |
| 1 | -1.656679000 | -3.192851000 | 2.205982000 |
| 1 | -0.369774000 | 1.767345000 | -4.636337000 |
| 1 | -1.011128000 | 2.788791000 | -2.461958000 |
| 6 | -1.830939000 | 3.523760000 | -0.273567000 |
| 6 | -2.941513000 | 4.093247000 | -0.892722000 |
| 6 | -0.766968000 | 4.342848000 | 0.077893000 |
| 6 | -2.975566000 | 5.445882000 | -1.166376000 |
| 1 | -3.781378000 | 3.481632000 | -1.153229000 |

| | | | | | | | |
|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | -0.799366000 | 5.701181000 | -0.196990000 | 6 | 7.741620000 | -0.911483000 | -1.157658000 |
| 1 | 0.076854000 | 3.918056000 | 0.579134000 | 6 | 6.582099000 | -0.598753000 | -0.459355000 |
| 6 | -1.901459000 | 6.252416000 | -0.820341000 | 6 | 6.134353000 | 0.725778000 | -0.351354000 |
| 6 | -3.398625000 | 1.389204000 | 0.778524000 | 6 | 4.904162000 | 1.054946000 | 0.387980000 |
| 6 | -3.590489000 | 1.588679000 | 2.143144000 | 6 | 4.068495000 | 2.108172000 | -0.009870000 |
| 6 | -4.478443000 | 1.002501000 | -0.005016000 | 6 | 2.906098000 | 2.406481000 | 0.680009000 |
| 6 | -4.838559000 | 1.410575000 | 2.710856000 | 6 | 2.492767000 | 1.679208000 | 1.818799000 |
| 1 | -2.765256000 | 1.888919000 | 2.761102000 | 6 | 4.506229000 | 0.326096000 | 1.517837000 |
| 6 | -5.726084000 | 0.822301000 | 0.566144000 | 6 | 3.346159000 | 0.625519000 | 2.212821000 |
| 1 | -4.347641000 | 0.809754000 | -1.050326000 | 6 | 1.241201000 | 2.009456000 | 2.509955000 |
| 6 | -5.909192000 | 1.028374000 | 1.921790000 | 6 | 1.178593000 | 1.640898000 | 3.980902000 |
| 6 | 0.551800000 | -2.101483000 | 2.426438000 | 1 | 9.390966000 | -0.153524000 | -2.323958000 |
| 6 | 1.546649000 | -3.067815000 | 2.432279000 | 1 | 8.626877000 | 2.207708000 | -2.150271000 |
| 6 | -0.078615000 | -1.780616000 | 3.629118000 | 1 | 6.588110000 | 2.764099000 | -0.880765000 |
| 6 | 1.899065000 | -3.707798000 | 3.610734000 | 1 | 5.991003000 | -1.396092000 | -0.009312000 |
| 1 | 2.052741000 | -3.319798000 | 1.524407000 | 1 | 8.063489000 | -1.949958000 | -1.227889000 |
| 6 | 0.264179000 | -2.427045000 | 4.799637000 | 1 | 5.144335000 | -0.480725000 | 1.880695000 |
| 1 | -0.838125000 | -1.022224000 | 3.649607000 | 1 | 4.326699000 | 2.692765000 | -0.894183000 |
| 6 | 1.257917000 | -3.393355000 | 4.792682000 | 1 | 2.286276000 | 3.238127000 | 0.338711000 |
| 6 | 1.139488000 | -1.806662000 | -0.401768000 | 1 | 3.084730000 | 0.028480000 | 3.086400000 |
| 6 | 2.182387000 | -1.023796000 | -0.880514000 | 1 | 1.049972000 | 3.086922000 | 2.396985000 |
| 6 | 0.959764000 | -3.087576000 | -0.920946000 | 1 | 2.012468000 | 2.074781000 | 4.564239000 |
| 6 | 3.039023000 | -1.516357000 | -1.853199000 | 1 | 1.206689000 | 0.557447000 | 4.150484000 |
| 1 | 2.344083000 | -0.037873000 | -0.497403000 | 1 | 0.243765000 | 2.001797000 | 4.433323000 |
| 6 | 1.816503000 | -3.578894000 | -1.886705000 | 1 | 3.529443000 | -3.174796000 | -3.097892000 |
| 1 | 0.149123000 | -3.695927000 | -0.573689000 | 1 | 3.847941000 | -0.906062000 | -2.199609000 |
| 6 | 2.859768000 | -2.791910000 | -2.352991000 | 1 | 1.675788000 | -4.570360000 | -2.270411000 |
| 8 | -4.335491000 | -1.649282000 | -1.916014000 | 1 | 2.674031000 | -4.448263000 | 3.599577000 |
| 8 | -1.414938000 | -2.283972000 | -3.287013000 | 1 | 1.531457000 | -3.888448000 | 5.703116000 |
| 8 | -5.306794000 | -3.230978000 | -0.571740000 | 1 | -0.231272000 | -2.170847000 | 5.714877000 |
| 8 | -0.618752000 | -1.002449000 | -5.011667000 | 1 | -1.930772000 | 7.303166000 | -1.030792000 |
| 29 | -0.020254000 | 1.030996000 | 1.300672000 | 1 | -3.835793000 | 5.872968000 | -1.642461000 |
| 6 | -5.353886000 | -2.631820000 | -1.856185000 | 1 | 0.029710000 | 6.320137000 | 0.082647000 |
| 1 | -6.330241000 | -2.158276000 | -2.003929000 | 1 | -6.876838000 | 0.887953000 | 2.361024000 |
| 1 | -5.171087000 | -3.399655000 | -2.626854000 | 1 | -4.973755000 | 1.570070000 | 3.762068000 |
| 6 | 6.895872000 | 1.723089000 | -0.976548000 | 1 | -6.551862000 | 0.519260000 | -0.046667000 |
| 6 | 8.051186000 | 1.410817000 | -1.680972000 | | | | |
| 6 | 8.483047000 | 0.091064000 | -1.775076000 | | | | |

L1-(R)-IM1

| | | | | | | | |
|----|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 6 | 6.039200000 | -0.816267000 | 0.343115000 | 6 | 1.051324000 | 4.565677000 | -0.194987000 |
| 1 | 6.821654000 | -1.067321000 | 1.067141000 | 6 | -0.869022000 | 3.507344000 | 0.768220000 |
| 1 | 6.312784000 | 0.071772000 | -0.248707000 | 6 | 0.491358000 | 5.807336000 | 0.065980000 |
| 6 | 1.415957000 | 1.276732000 | 3.897901000 | 1 | 2.006501000 | 4.510153000 | -0.673107000 |
| 6 | 1.931876000 | 0.006731000 | 3.963916000 | 6 | -1.418145000 | 4.743844000 | 1.040443000 |
| 6 | 2.223491000 | -0.712215000 | 2.814198000 | 1 | -1.410066000 | 2.618100000 | 1.024899000 |
| 6 | 2.006187000 | -0.235588000 | 1.538949000 | 6 | -0.738392000 | 5.899368000 | 0.686421000 |
| 6 | 1.459171000 | 1.072889000 | 1.450421000 | 6 | 2.645720000 | 2.016647000 | -1.000442000 |
| 6 | 1.188580000 | 1.792247000 | 2.615177000 | 6 | 2.754195000 | 1.801379000 | -2.369040000 |
| 6 | 2.493972000 | -1.069842000 | 0.407868000 | 6 | 3.755867000 | 2.467501000 | -0.292846000 |
| 6 | 3.863254000 | -1.183757000 | 0.271950000 | 6 | 3.950059000 | 2.042415000 | -3.024494000 |
| 6 | 4.477563000 | -2.004815000 | -0.663233000 | 1 | 1.898274000 | 1.448060000 | -2.908998000 |
| 6 | 3.740954000 | -2.790618000 | -1.513507000 | 6 | 4.947540000 | 2.713819000 | -0.948985000 |
| 6 | 2.348453000 | -2.696303000 | -1.401917000 | 1 | 3.689720000 | 2.617576000 | 0.766043000 |
| 6 | 1.712725000 | -1.863915000 | -0.477713000 | 6 | 5.044979000 | 2.501550000 | -2.316198000 |
| 15 | 1.022548000 | 1.719961000 | -0.211379000 | 8 | 2.705988000 | -1.943290000 | 3.162319000 |
| 15 | -0.099794000 | -1.604205000 | -0.601458000 | 8 | 4.823037000 | -0.568602000 | 1.026587000 |
| 1 | 1.194053000 | 1.851676000 | 4.792692000 | 8 | 2.229451000 | -0.745248000 | 5.061171000 |
| 1 | 0.780571000 | 2.794005000 | 2.533419000 | 8 | 5.831426000 | -1.916887000 | -0.528083000 |
| 1 | 4.212458000 | -3.451207000 | -2.235845000 | 29 | -0.243802000 | 0.407927000 | -1.468759000 |
| 1 | 1.742261000 | -3.298670000 | -2.069891000 | 6 | 2.903468000 | -1.889890000 | 4.563945000 |
| 6 | -0.642787000 | -3.014646000 | -1.645945000 | 1 | 2.485463000 | -2.790503000 | 5.028102000 |
| 6 | -1.097139000 | -4.220051000 | -1.129423000 | 1 | 3.981091000 | -1.805605000 | 4.782107000 |
| 6 | -0.609860000 | -2.844551000 | -3.028659000 | 6 | -1.059984000 | 0.990888000 | -3.213458000 |
| 6 | -1.499042000 | -5.239996000 | -1.976235000 | 1 | -1.067383000 | 0.220136000 | -3.994393000 |
| 1 | -1.148385000 | -4.363639000 | -0.070263000 | 6 | -0.686751000 | 2.348494000 | -3.777031000 |
| 6 | -1.002404000 | -3.865565000 | -3.873331000 | 1 | 0.176748000 | 2.267352000 | -4.451239000 |
| 1 | -0.287089000 | -1.905762000 | -3.433432000 | 1 | -1.506695000 | 2.808503000 | -4.358278000 |
| 6 | -1.448840000 | -5.066573000 | -3.346929000 | 1 | -0.400749000 | 3.075125000 | -3.002902000 |
| 6 | -0.812235000 | -1.970591000 | 1.039596000 | 6 | -2.281295000 | 0.914574000 | -2.413866000 |
| 6 | -2.025987000 | -1.367680000 | 1.355526000 | 6 | -2.737120000 | 1.984813000 | -1.608250000 |
| 6 | -0.227066000 | -2.840482000 | 1.953496000 | 6 | -3.070845000 | -0.264127000 | -2.365385000 |
| 6 | -2.652029000 | -1.642489000 | 2.559060000 | 6 | -3.843018000 | 1.859178000 | -0.779409000 |
| 1 | -2.490634000 | -0.692909000 | 0.664041000 | 1 | -2.207224000 | 2.935531000 | -1.640889000 |
| 6 | -0.852175000 | -3.108297000 | 3.157805000 | 6 | -4.174216000 | -0.379017000 | -1.544996000 |
| 1 | 0.725201000 | -3.283491000 | 1.741458000 | 1 | -2.772241000 | -1.114954000 | -2.977829000 |
| 6 | -2.066270000 | -2.513715000 | 3.459566000 | 6 | -4.587373000 | 0.676176000 | -0.711723000 |
| 6 | 0.379761000 | 3.402867000 | 0.153860000 | 1 | -4.161452000 | 2.723756000 | -0.194699000 |

| | | | | | | | |
|---|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 1 | -4.715741000 | -1.325391000 | -1.519808000 | 6 | -2.985989000 | -0.481267000 | -0.869651000 |
| 6 | -5.734344000 | 0.533287000 | 0.199190000 | 6 | -3.495579000 | -1.212285000 | -1.920687000 |
| 6 | -6.833425000 | -0.271454000 | -0.132628000 | 6 | -3.745172000 | -0.672842000 | -3.176625000 |
| 6 | -5.760110000 | 1.188605000 | 1.439143000 | 6 | -3.535484000 | 0.658574000 | -3.436397000 |
| 6 | -7.907252000 | -0.416285000 | 0.735549000 | 6 | -3.018262000 | 1.427997000 | -2.386684000 |
| 1 | -6.853893000 | -0.769348000 | -1.101566000 | 6 | -2.741011000 | 0.896996000 | -1.127889000 |
| 6 | -6.836655000 | 1.049579000 | 2.306106000 | 15 | -0.108742000 | -1.369891000 | 0.205309000 |
| 1 | -4.907621000 | 1.800724000 | 1.733885000 | 15 | -1.723805000 | 1.854938000 | 0.051190000 |
| 6 | -7.917234000 | 0.243867000 | 1.960883000 | 1 | -3.036820000 | -3.153876000 | 3.854796000 |
| 1 | -8.750379000 | -1.042836000 | 0.447241000 | 1 | -0.872883000 | -2.739812000 | 2.705043000 |
| 1 | -6.826881000 | 1.568463000 | 3.264047000 | 1 | -3.744724000 | 1.090981000 | -4.410620000 |
| 1 | -8.760529000 | 0.131952000 | 2.640263000 | 1 | -2.805435000 | 2.475880000 | -2.573881000 |
| 1 | -0.393468000 | -3.777837000 | 3.858467000 | 6 | -1.851710000 | 3.601880000 | -0.504840000 |
| 1 | -2.549646000 | -2.725732000 | 4.392715000 | 6 | -2.712959000 | 4.516661000 | 0.089667000 |
| 1 | -1.851843000 | -6.164434000 | -1.563897000 | 6 | -1.011538000 | 4.032808000 | -1.532903000 |
| 1 | -1.761413000 | -5.856321000 | -4.000996000 | 6 | -2.742405000 | 5.833233000 | -0.336333000 |
| 1 | -0.970768000 | -3.721064000 | -4.935026000 | 1 | -3.355600000 | 4.210442000 | 0.887671000 |
| 1 | -3.592104000 | -1.178617000 | 2.782320000 | 6 | -1.050469000 | 5.347953000 | -1.958333000 |
| 1 | -1.169741000 | 6.859371000 | 0.889341000 | 1 | -0.351973000 | 3.333423000 | -2.005106000 |
| 1 | 1.019954000 | 6.696000000 | -0.216363000 | 6 | -1.912754000 | 6.250653000 | -1.360618000 |
| 1 | -2.375937000 | 4.808630000 | 1.517552000 | 6 | -2.617112000 | 1.862349000 | 1.646577000 |
| 1 | 5.795337000 | 3.072718000 | -0.399144000 | 6 | -1.877382000 | 2.001973000 | 2.815557000 |
| 1 | 5.969712000 | 2.694185000 | -2.823531000 | 6 | -4.003456000 | 1.786376000 | 1.731363000 |
| 1 | 4.021981000 | 1.873383000 | -4.080241000 | 6 | -2.508750000 | 2.071705000 | 4.045112000 |

L2-inner-TS2-I

| | | | | | | | |
|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | 1.382550000 | 0.914373000 | -2.012390000 | 6 | -4.633355000 | 1.854837000 | 2.960441000 |
| 8 | 0.348732000 | 1.376800000 | -2.504706000 | 1 | -4.586926000 | 1.646388000 | 0.843896000 |
| 8 | 2.301881000 | 0.201856000 | -2.331294000 | 6 | -3.887860000 | 1.999897000 | 4.118319000 |
| 6 | -4.048702000 | -2.852661000 | -3.279495000 | 6 | 1.105039000 | -1.920375000 | 1.468436000 |
| 1 | -4.926022000 | -3.497093000 | -3.393445000 | 6 | 1.959549000 | -2.992761000 | 1.273037000 |
| 1 | -3.136405000 | -3.345514000 | -3.652814000 | 6 | 1.215777000 | -1.171953000 | 2.641977000 |
| 6 | -2.996557000 | -2.605997000 | 2.917495000 | 6 | 2.913816000 | -3.310807000 | 2.228948000 |
| 6 | -4.130800000 | -2.119654000 | 2.314370000 | 1 | 1.893722000 | -3.573958000 | 0.377142000 |
| 6 | -4.069069000 | -1.426764000 | 1.114696000 | 6 | 2.158556000 | -1.494982000 | 3.595283000 |
| 6 | -2.891412000 | -1.157096000 | 0.450384000 | 1 | 0.552839000 | -0.344218000 | 2.810476000 |
| 6 | -1.709299000 | -1.647030000 | 1.060040000 | 6 | 3.015278000 | -2.566591000 | 3.387344000 |
| 6 | -1.785987000 | -2.359834000 | 2.258225000 | 6 | -0.084687000 | -2.686211000 | -1.071179000 |
| | | | | 6 | 0.775734000 | -2.570817000 | -2.160265000 |

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|----|--------------|--------------|--------------|------------------------|--------------|--------------|--------------|
| 6 | -0.888379000 | -3.818097000 | -0.958629000 | 1 | 1.521821000 | 1.869671000 | 1.763902000 |
| 6 | 0.828309000 | -3.574190000 | -3.113808000 | 1 | 0.655574000 | 3.180900000 | 0.923878000 |
| 1 | 1.403569000 | -1.711165000 | -2.273463000 | 1 | 1.987944000 | 2.895062000 | -1.094020000 |
| 6 | -0.832453000 | -4.815188000 | -1.914616000 | 1 | -1.935640000 | 7.270935000 | -1.689050000 |
| 1 | -1.565749000 | -3.916624000 | -0.136935000 | 1 | -3.410393000 | 6.527918000 | 0.133023000 |
| 6 | 0.027408000 | -4.694601000 | -2.993999000 | 1 | -0.404953000 | 5.665082000 | -2.753160000 |
| 8 | -5.327300000 | -1.029030000 | 0.758215000 | 1 | -5.702227000 | 1.794009000 | 3.014948000 |
| 8 | -3.877238000 | -2.524182000 | -1.910560000 | 1 | -4.378474000 | 2.052269000 | 5.069855000 |
| 8 | -5.424159000 | -2.189940000 | 2.734546000 | 1 | -1.927062000 | 2.182270000 | 4.938524000 |
| 8 | -4.258457000 | -1.640316000 | -3.987915000 | 1 | 1.494503000 | -3.471410000 | -3.946672000 |
| 29 | 0.235524000 | 0.785606000 | -0.288155000 | 1 | 0.072040000 | -5.469089000 | -3.734277000 |
| 6 | -6.198229000 | -1.703865000 | 1.648357000 | 1 | -1.455041000 | -5.682298000 | -1.814714000 |
| 1 | -6.954987000 | -1.005783000 | 2.022623000 | 1 | 3.573340000 | -4.138914000 | 2.062024000 |
| 1 | -6.673889000 | -2.552017000 | 1.128630000 | 1 | 3.753888000 | -2.812900000 | 4.123796000 |
| 6 | 8.583119000 | 1.180567000 | 0.040814000 | 1 | 2.233362000 | -0.913295000 | 4.492373000 |
| 6 | 9.901182000 | 0.757050000 | 0.155625000 | | | | |
| 6 | 10.192677000 | -0.594267000 | 0.313291000 | | | | |
| 6 | 9.151514000 | -1.516406000 | 0.352748000 | | | | |
| 6 | 7.834475000 | -1.091230000 | 0.234565000 | | | | |
| 6 | 7.524440000 | 0.265117000 | 0.077183000 | | | | |
| 6 | 6.124245000 | 0.713295000 | -0.047610000 | | | | |
| 6 | 5.775331000 | 1.779135000 | -0.883051000 | | | | |
| 6 | 4.455599000 | 2.190427000 | -1.001069000 | | | | |
| 6 | 3.429229000 | 1.563084000 | -0.291846000 | | | | |
| 6 | 5.096214000 | 0.082662000 | 0.662274000 | | | | |
| 6 | 3.779784000 | 0.500115000 | 0.542799000 | | | | |
| 6 | 2.019646000 | 2.039997000 | -0.403224000 | | | | |
| 1 | 11.225490000 | -0.926851000 | 0.403769000 | | | | |
| 1 | 10.706671000 | 1.489848000 | 0.130943000 | | | | |
| 1 | 8.362491000 | 2.243591000 | -0.053925000 | | | | |
| 1 | 7.026683000 | -1.822617000 | 0.234536000 | | | | |
| 1 | 9.367225000 | -2.578186000 | 0.465270000 | | | | |
| 1 | 5.333205000 | -0.738218000 | 1.339016000 | | | | |
| 1 | 6.547570000 | 2.271564000 | -1.474583000 | | | | |
| 1 | 4.207446000 | 3.010896000 | -1.676606000 | | | | |
| 1 | 3.007334000 | -0.014740000 | 1.109458000 | | | | |
| 6 | 1.597675000 | 2.624705000 | 0.967433000 | | | | |
| 1 | 2.374608000 | 3.332965000 | 1.301567000 | | | | |
| | | | | L2-inner-TS2-II | | | |
| | | | | 8 | -0.340795000 | 3.678624000 | -1.524582000 |
| | | | | 6 | 0.288840000 | 2.664768000 | -1.332730000 |
| | | | | 8 | 0.716070000 | 1.694999000 | -1.950004000 |
| | | | | 29 | -0.190553000 | 1.298694000 | 0.219660000 |
| | | | | 15 | -2.413353000 | 1.382304000 | 0.111395000 |
| | | | | 15 | 0.368229000 | -0.817365000 | 0.712900000 |
| | | | | 1 | -4.281430000 | -4.917102000 | -1.671838000 |
| | | | | 6 | -4.639829000 | -4.159335000 | -0.954867000 |
| | | | | 6 | -0.637097000 | -2.529526000 | -4.354273000 |
| | | | | 6 | -2.051872000 | 0.687795000 | -3.866370000 |
| | | | | 6 | -1.606309000 | -0.609763000 | -3.886082000 |
| | | | | 6 | -1.581132000 | -1.385970000 | -2.732837000 |
| | | | | 6 | -1.944527000 | -0.913121000 | -1.491210000 |
| | | | | 6 | -2.402875000 | 0.436704000 | -1.449000000 |
| | | | | 6 | -2.430958000 | 1.198921000 | -2.620134000 |
| | | | | 6 | -1.981264000 | -1.883307000 | -0.366829000 |
| | | | | 6 | -2.978384000 | -2.834792000 | -0.373728000 |
| | | | | 6 | -3.129914000 | -3.799642000 | 0.610594000 |
| | | | | 6 | -2.264003000 | -3.875001000 | 1.674712000 |
| | | | | 6 | -1.225191000 | -2.936975000 | 1.697658000 |
| | | | | 6 | -1.066052000 | -1.962487000 | 0.710023000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 1 | -2.078975000 | 1.298436000 | -4.764036000 | 8 | -4.251950000 | -4.533210000 | 0.359247000 |
| 1 | -2.727525000 | 2.242786000 | -2.561103000 | 1 | -5.728715000 | -4.059847000 | -1.001348000 |
| 1 | -2.385239000 | -4.615567000 | 2.460425000 | 1 | -0.906051000 | -3.406218000 | -4.951120000 |
| 1 | -0.521706000 | -2.969214000 | 2.524490000 | 1 | 0.456743000 | -2.413469000 | -4.277869000 |
| 6 | -3.443701000 | 2.860104000 | -0.215890000 | 1 | 2.863946000 | -1.987225000 | 1.872679000 |
| 6 | -2.910683000 | 4.130897000 | -0.057347000 | 6 | 1.276766000 | 2.903383000 | 0.468674000 |
| 6 | -4.791032000 | 2.727542000 | -0.551247000 | 6 | 2.645424000 | 2.336270000 | 0.367780000 |
| 6 | -3.711858000 | 5.250775000 | -0.225618000 | 6 | 3.225772000 | 1.531186000 | 1.354604000 |
| 1 | -1.870938000 | 4.252455000 | 0.149405000 | 6 | 3.427476000 | 2.618829000 | -0.762733000 |
| 6 | -5.583641000 | 3.841889000 | -0.727216000 | 6 | 4.506959000 | 1.014946000 | 1.207460000 |
| 1 | -5.219053000 | 1.753029000 | -0.672683000 | 1 | 2.673150000 | 1.304990000 | 2.264850000 |
| 6 | -5.043046000 | 5.108780000 | -0.559054000 | 6 | 4.708654000 | 2.114845000 | -0.906016000 |
| 6 | -3.443808000 | 0.543660000 | 1.368750000 | 1 | 3.007211000 | 3.243419000 | -1.551985000 |
| 6 | -3.262730000 | 0.964061000 | 2.683741000 | 6 | 5.277063000 | 1.291915000 | 0.074796000 |
| 6 | -4.439338000 | -0.381951000 | 1.087961000 | 1 | 4.931946000 | 0.411483000 | 2.009821000 |
| 6 | -4.052594000 | 0.460464000 | 3.700168000 | 1 | 5.276174000 | 2.340679000 | -1.809362000 |
| 1 | -2.509109000 | 1.696514000 | 2.907240000 | 6 | 0.716050000 | 3.046451000 | 1.887185000 |
| 6 | -5.224937000 | -0.890461000 | 2.108227000 | 1 | 1.375759000 | 3.689133000 | 2.495103000 |
| 1 | -4.594061000 | -0.724963000 | 0.085057000 | 1 | -0.271268000 | 3.527364000 | 1.869704000 |
| 6 | -5.034555000 | -0.471649000 | 3.412651000 | 1 | 0.616210000 | 2.105902000 | 2.447666000 |
| 6 | 1.030655000 | -1.041845000 | 2.412963000 | 6 | 6.638205000 | 0.746418000 | -0.080950000 |
| 6 | 0.271805000 | -0.554657000 | 3.477702000 | 6 | 7.654540000 | 1.504993000 | -0.674181000 |
| 6 | 2.265222000 | -1.616410000 | 2.677635000 | 6 | 6.952123000 | -0.545361000 | 0.358678000 |
| 6 | 0.740671000 | -0.641795000 | 4.773644000 | 6 | 8.937211000 | 0.992833000 | -0.821358000 |
| 1 | -0.694065000 | -0.125768000 | 3.292606000 | 1 | 7.437006000 | 2.522367000 | -0.998637000 |
| 6 | 2.735701000 | -1.699622000 | 3.979364000 | 6 | 8.235167000 | -1.057984000 | 0.215173000 |
| 6 | 1.977978000 | -1.212969000 | 5.026985000 | 1 | 6.164960000 | -1.163089000 | 0.790550000 |
| 6 | 1.535385000 | -1.687539000 | -0.393434000 | 6 | 9.234769000 | -0.291395000 | -0.375844000 |
| 6 | 2.258326000 | -0.961228000 | -1.330324000 | 1 | 9.713098000 | 1.605409000 | -1.278497000 |
| 6 | 1.715613000 | -3.069147000 | -0.314727000 | 1 | 8.453676000 | -2.068529000 | 0.558031000 |
| 6 | 3.163517000 | -1.607013000 | -2.161340000 | 1 | 10.240378000 | -0.693006000 | -0.489336000 |
| 1 | 2.103020000 | 0.090840000 | -1.433377000 | 1 | 1.306840000 | 3.922659000 | 0.071045000 |
| 6 | 2.615523000 | -3.706480000 | -1.142840000 | 1 | -5.659528000 | 5.975725000 | -0.692367000 |
| 1 | 1.143114000 | -3.645690000 | 0.383388000 | 1 | -6.616709000 | 3.727782000 | -0.989184000 |
| 6 | 3.345702000 | -2.971740000 | -2.066914000 | 1 | -3.286166000 | 6.226833000 | -0.106419000 |
| 8 | -1.196887000 | -1.365461000 | -4.943775000 | 1 | -5.646791000 | -0.866893000 | 4.198613000 |
| 8 | -1.187392000 | -2.653821000 | -3.054177000 | 1 | -5.983203000 | -1.614013000 | 1.883384000 |
| 8 | -4.035672000 | -2.911330000 | -1.241510000 | 1 | -3.906744000 | 0.796443000 | 4.707625000 |

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|---|-------------|--------------|--------------|---|--------------|-------------|--------------|
| 1 | 3.722932000 | -1.033203000 | -2.872215000 | 6 | -3.067173000 | 1.654615000 | 0.019661000 |
| 1 | 2.746174000 | -4.768341000 | -1.074470000 | 6 | -3.685261000 | 1.164707000 | 1.163130000 |
| 1 | 4.049274000 | -3.465931000 | -2.707752000 | 6 | -3.856171000 | 2.116541000 | -1.030170000 |
| 1 | 0.145286000 | -0.267088000 | 5.582369000 | 6 | -5.067859000 | 1.154824000 | 1.258494000 |
| 1 | 2.344638000 | -1.276120000 | 6.032102000 | 1 | -3.104268000 | 0.777355000 | 1.972945000 |
| 1 | 3.692948000 | -2.143163000 | 4.169095000 | 6 | -5.233028000 | 2.107828000 | -0.932362000 |

L2-inner-TS2-III

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 29 | -0.009094000 | 0.773395000 | 1.521097000 | 6 | -3.400423000 | 2.486026000 | -1.925234000 |
| 15 | -1.235423000 | 1.748345000 | -0.062598000 | 6 | -5.842059000 | 1.630266000 | 0.218558000 |
| 15 | -0.007423000 | -1.442875000 | 0.941761000 | 6 | 0.292254000 | -2.631056000 | 2.321698000 |
| 1 | -5.809511000 | -2.035641000 | -3.116082000 | 6 | -0.317135000 | -2.388620000 | 3.554887000 |
| 6 | -5.439870000 | -1.540662000 | -2.211061000 | 6 | 1.152563000 | -3.717190000 | 2.205097000 |
| 6 | -0.659847000 | -2.475302000 | -4.682565000 | 6 | -0.094305000 | -3.236891000 | 4.624034000 |
| 6 | 0.559004000 | 0.716786000 | -3.638880000 | 1 | -0.943138000 | -1.529681000 | 3.679977000 |
| 6 | -0.039353000 | -0.493218000 | -3.888396000 | 6 | 1.382182000 | -4.555168000 | 3.283744000 |
| 6 | -0.936774000 | -1.055654000 | -2.992095000 | 6 | 0.754008000 | -4.322723000 | 4.492105000 |
| 6 | -1.307229000 | -0.453566000 | -1.807284000 | 6 | 0.997637000 | -2.121741000 | -0.433704000 |
| 6 | -0.785495000 | 0.851935000 | -1.591059000 | 6 | 2.070411000 | -1.402763000 | -0.936492000 |
| 6 | 0.165612000 | 1.376864000 | -2.467625000 | 6 | 0.704417000 | -3.371010000 | -0.980126000 |
| 6 | -2.161011000 | -1.229725000 | -0.870262000 | 6 | 2.853109000 | -1.927999000 | -1.954394000 |
| 6 | -3.449762000 | -1.537951000 | -1.246181000 | 1 | 2.296850000 | -0.432644000 | -0.550940000 |
| 6 | -4.305419000 | -2.317028000 | -0.478022000 | 6 | 1.490501000 | -3.899238000 | -1.984297000 |
| 6 | -3.901230000 | -2.862219000 | 0.714343000 | 1 | -0.139609000 | -3.924871000 | -0.620586000 |
| 6 | -2.584423000 | -2.591462000 | 1.113212000 | 6 | 2.569931000 | -3.176484000 | -2.472064000 |
| 6 | -1.717215000 | -1.803329000 | 0.359823000 | 8 | 0.146041000 | -1.334929000 | -4.940723000 |
| 1 | 1.299483000 | 1.137861000 | -4.313163000 | 8 | -1.327029000 | -2.278097000 | -3.447917000 |
| 1 | 0.616281000 | 2.339732000 | -2.242330000 | 8 | -4.084723000 | -1.169882000 | -2.395724000 |
| 1 | -4.563208000 | -3.481628000 | 1.313112000 | 8 | -5.499298000 | -2.448253000 | -1.120388000 |
| 1 | -2.229795000 | -3.025475000 | 2.042977000 | 1 | -6.035526000 | -0.646021000 | -1.974946000 |
| 6 | -0.933458000 | 3.528905000 | -0.404306000 | 1 | -1.401897000 | -2.587836000 | -5.486291000 |
| 6 | -0.605216000 | 4.330798000 | 0.685906000 | 1 | -0.021594000 | -3.366018000 | -4.617480000 |
| 6 | -1.107302000 | 4.132738000 | -1.648591000 | 8 | -1.508677000 | 0.448994000 | 3.484161000 |
| 6 | -0.423931000 | 5.695112000 | 0.525824000 | 6 | -1.013680000 | 1.551340000 | 3.276319000 |
| 1 | -0.533232000 | 3.902342000 | 1.664684000 | 8 | -1.258918000 | 2.722330000 | 3.421609000 |
| 6 | -0.920253000 | 5.492316000 | -1.805585000 | 6 | 1.110900000 | 1.538442000 | 3.136460000 |
| 1 | -1.377817000 | 3.544842000 | -2.500929000 | 1 | 1.048087000 | 2.627424000 | 3.210795000 |
| 6 | -0.572379000 | 6.276459000 | -0.718062000 | 6 | 2.176578000 | 1.212367000 | 2.149944000 |
| | | | | 6 | 3.062772000 | 0.125595000 | 2.301619000 |
| | | | | 6 | 2.440089000 | 2.097229000 | 1.081716000 |

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|---|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 6 | 4.160699000 | -0.030132000 | 1.473182000 | 15 | -2.073424000 | 1.570244000 | -0.226170000 |
| 1 | 2.895439000 | -0.593534000 | 3.102507000 | 15 | -0.028217000 | -1.110855000 | 1.099195000 |
| 6 | 3.525080000 | 1.917399000 | 0.237216000 | 1 | -4.919814000 | -4.257947000 | -2.175260000 |
| 1 | 1.791397000 | 2.962525000 | 0.938026000 | 6 | -5.200351000 | -3.385200000 | -1.562541000 |
| 6 | 4.430063000 | 0.865344000 | 0.427895000 | 6 | -0.230918000 | -3.143128000 | -3.891739000 |
| 1 | 4.850330000 | -0.852265000 | 1.663112000 | 6 | -0.648577000 | 0.385689000 | -3.876746000 |
| 1 | 3.677663000 | 2.618566000 | -0.583555000 | 6 | -0.642447000 | -0.981304000 | -3.749434000 |
| 6 | 1.297495000 | 0.894640000 | 4.493215000 | 6 | -1.176328000 | -1.604903000 | -2.627979000 |
| 1 | 2.326920000 | 1.027403000 | 4.863486000 | 6 | -1.703011000 | -0.918019000 | -1.554513000 |
| 1 | 0.616323000 | 1.333975000 | 5.232154000 | 6 | -1.727124000 | 0.501098000 | -1.672264000 |
| 1 | 1.086125000 | -0.181470000 | 4.465863000 | 6 | -1.199481000 | 1.111678000 | -2.812914000 |
| 6 | 5.614711000 | 0.703101000 | -0.435059000 | 6 | -2.266277000 | -1.722595000 | -0.440010000 |
| 6 | 6.261752000 | 1.815850000 | -0.988300000 | 6 | -3.437792000 | -2.414975000 | -0.651151000 |
| 6 | 6.135326000 | -0.566467000 | -0.720963000 | 6 | -4.013816000 | -3.250139000 | 0.295766000 |
| 6 | 7.378900000 | 1.666198000 | -1.799525000 | 6 | -3.427224000 | -3.455470000 | 1.520692000 |
| 1 | 5.899743000 | 2.815887000 | -0.751919000 | 6 | -2.220650000 | -2.783313000 | 1.755544000 |
| 6 | 7.254606000 | -0.716897000 | -1.530161000 | 6 | -1.640411000 | -1.931806000 | 0.815177000 |
| 1 | 5.635844000 | -1.449931000 | -0.324848000 | 1 | -0.245406000 | 0.880271000 | -4.755850000 |
| 6 | 7.882112000 | 0.398531000 | -2.075343000 | 1 | -1.215739000 | 2.195362000 | -2.883906000 |
| 1 | 7.867754000 | 2.548597000 | -2.209805000 | 1 | -3.874402000 | -4.106777000 | 2.266458000 |
| 1 | 7.635657000 | -1.715275000 | -1.740458000 | 1 | -1.723109000 | -2.934608000 | 2.708628000 |
| 1 | 8.759569000 | 0.281181000 | -2.708824000 | 6 | -2.392188000 | 3.224361000 | -0.947955000 |
| 1 | 1.649044000 | -3.913501000 | 1.279885000 | 6 | -1.347205000 | 4.134671000 | -1.081728000 |
| 1 | -1.051320000 | 5.939054000 | -2.771264000 | 6 | -3.670228000 | 3.613291000 | -1.342411000 |
| 1 | -0.428716000 | 7.331640000 | -0.840796000 | 6 | -1.573286000 | 5.395505000 | -1.607284000 |
| 1 | -0.176349000 | 6.296256000 | 1.377702000 | 1 | -0.347026000 | 3.905232000 | -0.786164000 |
| 1 | 2.050580000 | -5.386203000 | 3.174466000 | 6 | -3.893410000 | 4.871407000 | -1.867685000 |
| 1 | 0.929518000 | -4.974126000 | 5.325292000 | 1 | -4.494982000 | 2.941443000 | -1.229317000 |
| 1 | -0.574942000 | -3.039037000 | 5.561580000 | 6 | -2.844442000 | 5.765876000 | -2.001718000 |
| 1 | 3.677710000 | -1.359034000 | -2.332921000 | 6 | -3.678569000 | 1.095565000 | 0.493691000 |
| 1 | 3.179781000 | -3.584352000 | -3.254007000 | 6 | -3.886515000 | 1.404985000 | 1.833935000 |
| 1 | 1.263391000 | -4.867056000 | -2.386326000 | 6 | -4.709679000 | 0.512900000 | -0.233589000 |
| 1 | -5.828204000 | 2.478951000 | -1.743376000 | 6 | -5.103739000 | 1.143020000 | 2.436102000 |
| 1 | -6.911213000 | 1.632765000 | 0.301009000 | 1 | -3.098308000 | 1.858531000 | 2.405111000 |
| 1 | -5.530759000 | 0.777997000 | 2.148226000 | 6 | -5.925424000 | 0.248762000 | 0.370875000 |
| | | | | 1 | -4.559280000 | 0.237477000 | -1.258019000 |
| | | | | 6 | -6.125262000 | 0.565535000 | 1.703522000 |
| | | | | 6 | 0.329411000 | -1.482776000 | 2.857068000 |
| L2-outer-TS2-η^1 | | | | | | | |
| 29 | -0.173149000 | 1.053806000 | 0.748644000 | | | | |

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| 6 | -0.504658000 | -0.930933000 | 3.831178000 | 6 | 6.276718000 | 0.184963000 | -0.541147000 |
| 6 | 1.436894000 | -2.214290000 | 3.256639000 | 6 | 7.018147000 | 0.760212000 | -1.582287000 |
| 6 | -0.239199000 | -1.120243000 | 5.171570000 | 6 | 6.771261000 | -0.991058000 | 0.039878000 |
| 1 | -1.366899000 | -0.362450000 | 3.536522000 | 6 | 8.201902000 | 0.183721000 | -2.024321000 |
| 6 | 1.706296000 | -2.396150000 | 4.604922000 | 1 | 6.671495000 | 1.691925000 | -2.028698000 |
| 6 | 0.871472000 | -1.853696000 | 5.561360000 | 6 | 7.958881000 | -1.564554000 | -0.396368000 |
| 6 | 1.120728000 | -2.149808000 | 0.134169000 | 1 | 6.196822000 | -1.473458000 | 0.830593000 |
| 6 | 2.232068000 | -1.571101000 | -0.464794000 | 6 | 8.680857000 | -0.981770000 | -1.433268000 |
| 6 | 0.929043000 | -3.526318000 | 0.021850000 | 1 | 8.762375000 | 0.656883000 | -2.829611000 |
| 6 | 3.141881000 | -2.354842000 | -1.158775000 | 1 | 8.318255000 | -2.480395000 | 0.071500000 |
| 1 | 2.403748000 | -0.518703000 | -0.393871000 | 1 | 9.610953000 | -1.431150000 | -1.777286000 |
| 6 | 1.833847000 | -4.304806000 | -0.671759000 | 8 | 1.684759000 | 4.819851000 | -0.063388000 |
| 1 | 0.070170000 | -3.986042000 | 0.466318000 | 6 | 1.879728000 | 4.514810000 | 1.085382000 |
| 6 | 2.944891000 | -3.718437000 | -1.261392000 | 8 | 2.257021000 | 4.837372000 | 2.171419000 |
| 8 | -0.203078000 | -1.926137000 | -4.624812000 | 1 | -6.713933000 | -0.204726000 | -0.196135000 |
| 8 | -1.102473000 | -2.957112000 | -2.787442000 | 1 | -7.069000000 | 0.360240000 | 2.168173000 |
| 8 | -4.250337000 | -2.350044000 | -1.748973000 | 1 | -5.253330000 | 1.390167000 | 3.468087000 |
| 8 | -5.185609000 | -3.746692000 | -0.190235000 | 1 | -0.749149000 | 6.075294000 | -1.686143000 |
| 1 | -6.197020000 | -3.022846000 | -1.835009000 | 1 | -3.020434000 | 6.744418000 | -2.402345000 |
| 1 | -0.617373000 | -3.943309000 | -4.530762000 | 1 | -4.883610000 | 5.154783000 | -2.164675000 |
| 1 | 0.780370000 | -3.374231000 | -3.522902000 | 1 | 2.568364000 | -2.959953000 | 4.900697000 |
| 1 | 2.092104000 | -2.637307000 | 2.523993000 | 1 | -0.888396000 | -0.693870000 | 5.910040000 |
| 6 | 1.304576000 | 2.530149000 | 1.254434000 | 1 | 1.082315000 | -1.994066000 | 6.602660000 |
| 1 | 0.599904000 | 2.855137000 | 0.484077000 | 1 | 4.002918000 | -1.894446000 | -1.598197000 |
| 6 | 2.537157000 | 1.900895000 | 0.805322000 | 1 | 3.653416000 | -4.324149000 | -1.791417000 |
| 6 | 3.419565000 | 1.265828000 | 1.699040000 | 1 | 1.677988000 | -5.362646000 | -0.749078000 |
| 6 | 2.939203000 | 1.965526000 | -0.546600000 | | | | |
| 6 | 4.617495000 | 0.720341000 | 1.262871000 | L2-outer-TS2-η^3 | | | |
| 1 | 3.157714000 | 1.202316000 | 2.754896000 | 29 | 0.391796000 | 0.986640000 | 0.566362000 |
| 6 | 4.144097000 | 1.435050000 | -0.968925000 | 15 | -1.264502000 | 1.588889000 | -0.772818000 |
| 1 | 2.283104000 | 2.461005000 | -1.264497000 | 15 | -0.143156000 | -0.998584000 | 1.388934000 |
| 6 | 5.014264000 | 0.786941000 | -0.078274000 | 1 | -5.401344000 | -3.721224000 | -1.748889000 |
| 1 | 5.281280000 | 0.253840000 | 1.991581000 | 6 | -5.502102000 | -2.684699000 | -1.385841000 |
| 1 | 4.405867000 | 1.491610000 | -2.026402000 | 6 | -0.555290000 | -4.176729000 | -3.075645000 |
| 6 | 0.846159000 | 2.431769000 | 2.687124000 | 6 | 0.057883000 | -0.760289000 | -3.834172000 |
| 1 | 1.548680000 | 2.985481000 | 3.331922000 | 6 | -0.345939000 | -2.011256000 | -3.435186000 |
| 1 | -0.130016000 | 2.922433000 | 2.816026000 | 6 | -1.120769000 | -2.191778000 | -2.297415000 |
| 1 | 0.773094000 | 1.412608000 | 3.098426000 | 6 | -1.517607000 | -1.156393000 | -1.474826000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
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| 6 | -0.350358000 | 0.312189000 | -3.033715000 | 1 | 2.336816000 | -1.235458000 | -0.087265000 |
| 6 | -2.336616000 | -1.502984000 | -0.286380000 | 6 | 1.085988000 | -4.816204000 | 0.507247000 |
| 6 | -3.625088000 | -1.945491000 | -0.487716000 | 1 | -0.575534000 | -3.921410000 | 1.484000000 |
| 6 | -4.460114000 | -2.368951000 | 0.535537000 | 6 | 2.274366000 | -4.596289000 | -0.175157000 |
| 6 | -4.034527000 | -2.387308000 | 1.840758000 | 8 | -0.125838000 | -3.216615000 | -4.029936000 |
| 6 | -2.722168000 | -1.956533000 | 2.076025000 | 8 | -1.414408000 | -3.517114000 | -2.159375000 |
| 6 | -1.877186000 | -1.516185000 | 1.056516000 | 8 | -4.315086000 | -1.965198000 | -1.669038000 |
| 1 | 0.665332000 | -0.611880000 | -4.722583000 | 8 | -5.680231000 | -2.693101000 | 0.022250000 |
| 1 | -0.036509000 | 1.314219000 | -3.315314000 | 1 | -6.354918000 | -2.187615000 | -1.859810000 |
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| 1 | -2.356700000 | -1.966293000 | 3.097660000 | 1 | 0.317710000 | -4.573549000 | -2.534921000 |
| 6 | -1.259341000 | 3.034604000 | -1.900482000 | 1 | 1.374477000 | -2.709260000 | 3.308689000 |
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| 6 | -2.103502000 | 3.083808000 | -3.012265000 | 1 | 0.412548000 | 3.299714000 | 1.270665000 |
| 6 | -0.523077000 | 5.270495000 | -2.414567000 | 6 | 2.159836000 | 2.009895000 | 1.156267000 |
| 1 | 0.183709000 | 4.165108000 | -0.764755000 | 6 | 3.168756000 | 1.287999000 | 1.873031000 |
| 6 | -2.146130000 | 4.203290000 | -3.814528000 | 6 | 2.202792000 | 1.884361000 | -0.274972000 |
| 1 | -2.718756000 | 2.240930000 | -3.254892000 | 6 | 4.148770000 | 0.580783000 | 1.225543000 |
| 6 | -1.352188000 | 5.302627000 | -3.515327000 | 1 | 3.184219000 | 1.354723000 | 2.959470000 |
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| 6 | -4.094435000 | 1.247923000 | -0.723519000 | 6 | 4.212639000 | 0.487645000 | -0.186496000 |
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| 6 | -0.757757000 | -0.185427000 | 3.973706000 | 6 | 5.281272000 | -0.273657000 | -0.855563000 |
| 6 | 0.799392000 | -2.004028000 | 3.871134000 | 6 | 5.742377000 | 0.081679000 | -2.131423000 |
| 6 | -0.678979000 | -0.190443000 | 5.351472000 | 6 | 5.879688000 | -1.380504000 | -0.235378000 |
| 1 | -1.389454000 | 0.529144000 | 3.481272000 | 6 | 6.743969000 | -0.643468000 | -2.763009000 |
| 6 | 0.887286000 | -1.998413000 | 5.254830000 | 1 | 5.328323000 | 0.961934000 | -2.621962000 |
| 6 | 0.147208000 | -1.098259000 | 5.995708000 | 6 | 6.886118000 | -2.103537000 | -0.864309000 |
| 6 | 0.794030000 | -2.440614000 | 0.767333000 | 1 | 5.531049000 | -1.695642000 | 0.747716000 |
| 6 | 1.980849000 | -2.230107000 | 0.079657000 | 6 | 7.323285000 | -1.741799000 | -2.134271000 |
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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 1 | 7.329232000 | -2.959765000 | -0.357105000 | 1 | 0.450924000 | 0.670499000 | -3.286021000 |
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| 6 | 2.340567000 | 4.663639000 | 1.454261000 | 6 | -0.994293000 | 2.743904000 | -2.178571000 |
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| 1 | -6.217004000 | 1.099715000 | -0.665015000 | 6 | -1.227250000 | 2.614228000 | -3.544587000 |
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| 1 | -4.401720000 | 2.988624000 | 2.686765000 | 1 | -0.691351000 | 4.166949000 | -0.595722000 |
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| 1 | -2.795497000 | 4.224969000 | -4.667186000 | 6 | -0.952871000 | 4.977055000 | -3.849598000 |
| 1 | 1.533098000 | -2.698084000 | 5.746821000 | 6 | -2.890915000 | 1.498348000 | -0.525464000 |
| 1 | -1.248299000 | 0.517037000 | 5.920521000 | 6 | -3.238856000 | 1.927371000 | 0.749429000 |
| 1 | 0.215367000 | -1.095880000 | 7.065251000 | 6 | -3.887878000 | 1.281156000 | -1.471580000 |
| 1 | 3.635335000 | -3.125691000 | -0.914861000 | 6 | -4.573337000 | 2.125054000 | 1.071799000 |
| 1 | 2.849061000 | -5.428306000 | -0.532286000 | 1 | -2.475136000 | 2.119366000 | 1.477607000 |
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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 29 | 0.208501000 | 1.170851000 | 0.794880000 | 6 | -3.629780000 | 0.953765000 | -2.458813000 |
| 15 | -1.118174000 | 1.385238000 | -0.947026000 | 6 | -5.557827000 | 1.906940000 | 0.128830000 |
| 15 | 0.240023000 | -0.960337000 | 1.392536000 | 6 | 0.640824000 | -1.234033000 | 3.163835000 |
| 1 | -6.076741000 | -3.060156000 | -1.042507000 | 6 | 0.437293000 | -0.161801000 | 4.033293000 |
| 6 | -5.602375000 | -2.181163000 | -0.589857000 | 6 | 1.155678000 | -2.422099000 | 3.668257000 |
| 6 | -1.112007000 | -4.622065000 | -2.779923000 | 6 | 0.712127000 | -0.298478000 | 5.382711000 |
| 6 | 0.267550000 | -1.437014000 | -3.612567000 | 1 | 0.075658000 | 0.772344000 | 3.648668000 |
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| 6 | -3.657779000 | -1.935406000 | 2.386070000 | 1 | -0.272761000 | -3.861144000 | 1.187028000 |
| 6 | -2.291304000 | -1.624742000 | 2.424764000 | 6 | 2.427238000 | -4.410139000 | -0.744136000 |
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| 1 | -6.179595000 | -1.268925000 | -0.798617000 |
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| 6 | 1.588757000 | 3.682654000 | 2.289398000 |
| 1 | 1.835406000 | 4.678548000 | 1.889585000 |
| 6 | 2.361030000 | 2.669449000 | 1.481901000 |
| 6 | 3.379966000 | 1.871792000 | 2.011893000 |
| 6 | 2.126481000 | 2.586075000 | 0.098982000 |
| 6 | 4.194526000 | 1.109065000 | 1.187434000 |
| 1 | 3.576466000 | 1.884417000 | 3.082225000 |
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| 1 | 1.407879000 | 3.261957000 | -0.364104000 |
| 6 | 4.011814000 | 1.079056000 | -0.201696000 |
| 1 | 5.026368000 | 0.562562000 | 1.630388000 |
| 1 | 2.725432000 | 1.777692000 | -1.793635000 |
| 6 | 1.886033000 | 3.666040000 | 3.781387000 |
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| 1 | 1.263179000 | 4.409073000 | 4.294192000 |
| 1 | 1.665286000 | 2.682766000 | 4.214863000 |
| 6 | 4.945996000 | 0.343738000 | -1.079191000 |
| 6 | 5.203136000 | 0.785727000 | -2.383248000 |
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| 6 | 6.756970000 | -1.022192000 | -2.744329000 |
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| 1 | 7.459014000 | -1.549325000 | -3.387873000 |
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| 1 | -0.928915000 | 5.833947000 | -4.493338000 |
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| 1 | 1.431117000 | -1.590088000 | 6.922438000 |
| 1 | 0.540308000 | 0.528796000 | 6.042823000 |
| 1 | 3.737474000 | -2.889916000 | -1.468888000 |
| 1 | 2.951437000 | -5.209366000 | -1.229979000 |
| 1 | 0.946959000 | -5.687484000 | 0.117818000 |
| 1 | -5.974940000 | 1.331184000 | -1.887847000 |
| 1 | -6.587583000 | 2.071749000 | 0.378913000 |
| 1 | -4.833095000 | 2.459521000 | 2.056087000 |

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| 6 | 4.211863000 | 2.732736000 | -1.090859000 |
| 1 | 4.674033000 | 3.708462000 | -1.272309000 |
| 1 | 4.488405000 | 2.009952000 | -1.878537000 |
| 6 | -2.077071000 | 3.895994000 | -1.752559000 |
| 6 | -1.163915000 | 4.473507000 | -0.907361000 |
| 6 | -0.173022000 | 3.716835000 | -0.302066000 |
| 6 | -0.021208000 | 2.356104000 | -0.479371000 |
| 6 | -0.934827000 | 1.744350000 | -1.385031000 |
| 6 | -1.934478000 | 2.522264000 | -1.975519000 |
| 6 | 1.090847000 | 1.734068000 | 0.292910000 |
| 6 | 2.387773000 | 2.087171000 | -0.020791000 |
| 6 | 3.496337000 | 1.696037000 | 0.717107000 |
| 6 | 3.368452000 | 0.917119000 | 1.838436000 |
| 6 | 2.065591000 | 0.544053000 | 2.188846000 |
| 6 | 0.937001000 | 0.956246000 | 1.475799000 |
| 15 | -0.884243000 | -0.065904000 | -1.732895000 |
| 15 | -0.676305000 | 0.188488000 | 1.805666000 |
| 1 | -2.877010000 | 4.468764000 | -2.212856000 |
| 1 | -2.648549000 | 2.043924000 | -2.635479000 |
| 1 | 4.234852000 | 0.583660000 | 2.403369000 |
| 1 | 1.935978000 | -0.096954000 | 3.056071000 |
| 6 | -0.688277000 | -0.431769000 | 3.528689000 |
| 6 | -0.076517000 | 0.201713000 | 4.606125000 |
| 6 | -1.501911000 | -1.536174000 | 3.766816000 |
| 6 | -0.226780000 | -0.294353000 | 5.887369000 |
| 1 | 0.508715000 | 1.085759000 | 4.449900000 |
| 6 | -1.658687000 | -2.024179000 | 5.053269000 |
| 1 | -2.032883000 | -1.986358000 | 2.950375000 |

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | -1.012490000 | -1.413259000 | 6.111505000 | 6 | 3.814395000 | -2.064886000 | 0.291511000 |
| 6 | -1.960215000 | 1.476651000 | 1.964551000 | 6 | 2.443679000 | -2.585675000 | 0.136031000 |
| 6 | -3.267970000 | 1.047968000 | 1.752960000 | 6 | 1.983050000 | -3.032875000 | -1.110894000 |
| 6 | -1.724877000 | 2.780188000 | 2.377943000 | 6 | 0.689407000 | -3.495767000 | -1.265473000 |
| 6 | -4.323505000 | 1.920720000 | 1.950406000 | 6 | -0.223809000 | -3.506377000 | -0.201226000 |
| 1 | -3.455728000 | 0.034813000 | 1.446467000 | 6 | 1.564830000 | -2.650658000 | 1.216657000 |
| 6 | -2.783435000 | 3.649504000 | 2.568845000 | 6 | 0.249276000 | -3.089399000 | 1.054413000 |
| 1 | -0.721394000 | 3.127729000 | 2.524141000 | 6 | -1.575170000 | -4.157896000 | -0.369628000 |
| 6 | -4.082900000 | 3.220530000 | 2.357645000 | 6 | -1.462135000 | -5.668097000 | -0.197208000 |
| 6 | -2.375160000 | -0.371908000 | -2.758298000 | 1 | 7.419017000 | -0.644180000 | 0.697202000 |
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| 6 | -3.643824000 | -0.207926000 | -4.798130000 | 1 | 4.155125000 | -3.003480000 | 2.198859000 |
| 1 | -1.688894000 | 0.586802000 | -4.546422000 | 1 | 6.438311000 | -2.090716000 | 2.466161000 |
| 6 | -4.571538000 | -1.347744000 | -2.904203000 | 1 | 1.891364000 | -2.323763000 | 2.204043000 |
| 1 | -3.315891000 | -1.451437000 | -1.177374000 | 1 | 2.657347000 | -3.023164000 | -1.966006000 |
| 6 | -4.686821000 | -0.908208000 | -4.207345000 | 1 | 0.362754000 | -3.871531000 | -2.234876000 |
| 6 | 0.457549000 | -0.236504000 | -2.985413000 | 1 | -0.381721000 | -3.202525000 | 1.933767000 |
| 6 | 0.452967000 | -1.369560000 | -3.798275000 | 1 | -1.910832000 | -3.941515000 | -1.401309000 |
| 6 | 1.458489000 | 0.706591000 | -3.169940000 | 1 | -1.108706000 | -5.906747000 | 0.815060000 |
| 6 | 1.433431000 | -1.566378000 | -4.749816000 | 1 | -0.755364000 | -6.100889000 | -0.917626000 |
| 1 | -0.332263000 | -2.090207000 | -3.696081000 | 1 | -2.443531000 | -6.136098000 | -0.321176000 |
| 6 | 2.445525000 | 0.506569000 | -4.125354000 | 6 | -2.674855000 | -3.567792000 | 0.540581000 |
| 1 | 1.484248000 | 1.601408000 | -2.587817000 | 8 | -3.512971000 | -4.302015000 | 1.038084000 |
| 6 | 2.440023000 | -0.628010000 | -4.912865000 | 8 | -2.642433000 | -2.274409000 | 0.676402000 |
| 8 | 0.530917000 | 4.512729000 | 0.561606000 | 1 | -5.327806000 | 1.583246000 | 1.788447000 |
| 8 | 2.798610000 | 2.874825000 | -1.063571000 | 1 | -2.596253000 | 4.657777000 | 2.882131000 |
| 8 | -1.085521000 | 5.762474000 | -0.475746000 | 1 | 1.407711000 | -2.441568000 | -5.368504000 |
| 8 | 4.622308000 | 2.237457000 | 0.167744000 | 1 | 3.204755000 | 1.251423000 | -4.262249000 |
| 29 | -1.047457000 | -1.236935000 | 0.148071000 | 1 | -3.727872000 | 0.124857000 | -5.813755000 |
| 6 | 0.127218000 | 5.835280000 | 0.257077000 | 1 | -5.367006000 | -1.899936000 | -2.445028000 |
| 1 | -0.038209000 | 6.391637000 | 1.185757000 | 1 | 0.255118000 | 0.197295000 | 6.709306000 |
| 1 | 0.899162000 | 6.325426000 | -0.359855000 | 1 | -2.290348000 | -2.873367000 | 5.222178000 |
| 6 | 4.380460000 | -1.254710000 | -0.700222000 | 1 | -1.130661000 | -1.794745000 | 7.106374000 |
| 6 | 5.667245000 | -0.750756000 | -0.554886000 | 1 | -4.901528000 | 3.896087000 | 2.509008000 |
| 6 | 6.411856000 | -1.041372000 | 0.584269000 | 1 | 3.199856000 | -0.776026000 | -5.654373000 |
| 6 | 5.859415000 | -1.845951000 | 1.576710000 | 1 | -5.577622000 | -1.113517000 | -4.767479000 |
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|----|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 6 | 2.499089000 | -0.612447000 | -4.424516000 | 6 | -0.778690000 | -3.222465000 | 1.568280000 |
| 1 | 2.132874000 | -0.105292000 | -5.333541000 | 6 | -0.714257000 | -4.480100000 | 0.985658000 |
| 1 | 2.973898000 | -1.566092000 | -4.681951000 | 6 | -1.442130000 | -3.094732000 | 2.788285000 |
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| 6 | -2.764284000 | -0.738683000 | -2.694267000 | 1 | -0.186852000 | -4.615605000 | 0.062381000 |
| 6 | -1.538046000 | -0.104374000 | -2.562880000 | 6 | -2.043856000 | -4.180553000 | 3.383190000 |
| 6 | -0.644426000 | -0.370681000 | -1.547071000 | 1 | -1.452559000 | -2.140771000 | 3.277429000 |
| 6 | -1.020150000 | -1.403315000 | -0.642405000 | 6 | -1.985539000 | -5.428457000 | 2.780700000 |
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| 6 | 0.644426000 | 0.370681000 | -1.547071000 | 6 | 2.659843000 | -2.381858000 | 1.169801000 |
| 6 | 1.538046000 | 0.104374000 | -2.562880000 | 6 | 1.845699000 | -2.818165000 | -1.031277000 |
| 6 | 2.764284000 | 0.738683000 | -2.694267000 | 6 | 3.892946000 | -2.872391000 | 0.817982000 |
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| 6 | 2.261205000 | 2.027623000 | -0.785327000 | 6 | 3.090542000 | -3.310886000 | -1.393653000 |
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| 15 | 0.000000000 | -1.738791000 | 0.844357000 | 6 | 4.117545000 | -3.341880000 | -0.470804000 |
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| 1 | -4.127319000 | -2.201172000 | -1.895943000 | 8 | 1.415566000 | -0.845044000 | -3.543043000 |
| 1 | -2.541247000 | -2.798848000 | -0.075086000 | 8 | -3.435610000 | -0.219303000 | -3.763618000 |
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| 6 | 0.778690000 | 3.222465000 | 1.568280000 | 8 | -2.608794000 | -6.449723000 | 3.442043000 |
| 6 | 0.714257000 | 4.480100000 | 0.985658000 | 8 | -5.376968000 | 3.808460000 | -0.729642000 |
| 6 | 1.442130000 | 3.094732000 | 2.788285000 | 6 | -5.734662000 | 4.285073000 | -2.036309000 |
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| 1 | 0.186852000 | 4.615605000 | 0.062381000 | 1 | -1.548310000 | -8.155906000 | 2.866671000 |
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| 6 | 1.985539000 | 5.428457000 | 2.780700000 | 1 | -5.625247000 | 3.507118000 | -2.781803000 |
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| 1 | 5.791891000 | -3.872712000 | 1.396496000 | 6 | 3.299304000 | 3.661192000 | -0.684504000 |
| 1 | 5.806493000 | -2.811613000 | -0.074304000 | 6 | 1.081504000 | 3.654996000 | 0.193896000 |
| 6 | 2.078399000 | 1.084094000 | 3.719996000 | 6 | 3.326306000 | 5.048192000 | -0.605604000 |
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| 8 | 3.637057000 | 0.798609000 | 3.171625000 | 6 | 0.597808000 | 2.977432000 | -2.373561000 |
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| 6 | -7.648686000 | -0.584211000 | -0.085914000 | 6 | 0.656571000 | -3.093979000 | 2.967410000 |
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| 1 | -7.083202000 | 0.347023000 | -0.110968000 | 1 | 4.399309000 | 1.164946000 | 5.050002000 |
| 6 | -9.733702000 | -1.725658000 | 0.348189000 | 1 | 3.718365000 | -0.490418000 | 4.780239000 |
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| 1 | -10.792583000 | -1.692454000 | 0.600282000 | 1 | 4.091351000 | 4.868458000 | -0.248734000 |
| 6 | -2.080015000 | 1.871930000 | 0.113056000 | 1 | 0.233050000 | -0.193710000 | -2.872719000 |
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| 8 | 1.722043000 | -3.982428000 | 4.849860000 | 6 | 3.939776000 | 3.320030000 | -0.226561000 |
| 8 | 4.086023000 | -5.379494000 | -4.380327000 | 6 | 1.763666000 | 3.878420000 | -1.025846000 |
| 6 | 2.005360000 | 7.601146000 | -2.189339000 | 6 | 4.333748000 | 4.639203000 | -0.364264000 |
| 1 | 2.332614000 | 8.290337000 | -2.949992000 | 1 | 4.654430000 | 2.602961000 | 0.123251000 |
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| 6 | 4.520958000 | -6.704624000 | -4.032646000 | 6 | 3.434751000 | 5.583650000 | -0.828914000 |
| 1 | 3.716207000 | -7.278110000 | -3.590152000 | 6 | 3.548293000 | 0.202991000 | -0.768178000 |
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| 1 | -1.097612000 | -0.860906000 | 5.047615000 | 6 | -2.400090000 | -3.030304000 | -1.442030000 |
| 6 | 2.280673000 | -4.211383000 | 0.443387000 | 6 | -0.470794000 | -2.639184000 | -2.786670000 |
| 6 | 3.027128000 | -3.600687000 | 1.419859000 | 6 | -2.909028000 | -3.876034000 | -2.418586000 |
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| 6 | 1.046355000 | 2.177128000 | 3.476342000 | 6 | -3.558914000 | -0.015064000 | 2.010758000 |
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| | | | | 6 | -2.826908000 | -2.134589000 | 2.855299000 |

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| 6 | -2.459253000 | 2.830397000 | -1.475927000 | 1 | 7.465449000 | -3.128596000 | -0.402178000 |
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| 6 | -4.441606000 | 0.973240000 | -1.937301000 | 1 | -4.685228000 | -4.847683000 | -4.487268000 |
| 6 | -3.191193000 | 0.803944000 | -2.509621000 | 1 | -3.959221000 | -6.121891000 | -5.471281000 |
| 6 | -0.796211000 | 1.561204000 | -2.852749000 | 1 | -3.951982000 | -6.256578000 | -3.710769000 |
| 6 | -0.712435000 | 0.786681000 | -4.157846000 | 6 | -4.940809000 | -1.954758000 | 4.816183000 |
| 1 | -9.599703000 | 2.723107000 | 1.091233000 | 1 | -4.088287000 | -2.103727000 | 5.467832000 |
| 1 | -8.287803000 | 4.699684000 | 0.341794000 | 1 | -5.780101000 | -1.605847000 | 5.394436000 |
| 1 | -6.071979000 | 4.398072000 | -0.699295000 | 1 | -5.192976000 | -2.892517000 | 4.336874000 |
| 1 | -6.401749000 | 0.151106000 | -0.182870000 | | | | |
| 1 | -8.643404000 | 0.444037000 | 0.808409000 | | | | |
| 1 | -5.224978000 | 0.245079000 | -2.152527000 | | | | |
| 1 | -3.893467000 | 3.866517000 | -0.270658000 | | | | |
| 1 | -1.682455000 | 3.574850000 | -1.286461000 | | | | |
| 1 | -3.011121000 | -0.069472000 | -3.136139000 | | | | |
| 1 | -0.354188000 | 2.558272000 | -2.998223000 | | | | |
| 1 | -1.365556000 | 1.207480000 | -4.945388000 | | | | |
| 1 | -0.994763000 | -0.268136000 | -4.048283000 | | | | |
| 1 | 0.314619000 | 0.794415000 | -4.551117000 | | | | |
| 1 | -4.239427000 | 0.807251000 | 2.070762000 | | | | |
| | | | | L3-(R)-IM1 | | | |
| | | | | 6 | 5.275023000 | -2.797446000 | 1.162892000 |
| | | | | 1 | 5.873706000 | -3.187910000 | 1.992909000 |
| | | | | 1 | 5.878383000 | -2.149004000 | 0.506835000 |
| | | | | 6 | 1.418707000 | 1.218920000 | 3.918119000 |
| | | | | 6 | 1.462741000 | -0.127701000 | 4.179975000 |
| | | | | 6 | 1.576497000 | -1.055875000 | 3.155942000 |
| | | | | 6 | 1.631582000 | -0.718577000 | 1.820217000 |
| | | | | 6 | 1.576616000 | 0.669954000 | 1.527969000 |
| | | | | 6 | 1.480955000 | 1.594279000 | 2.569640000 |

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|----|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 6 | 1.872994000 | -1.819278000 | 0.849461000 | 6 | 4.343036000 | 1.001757000 | -0.053874000 |
| 6 | 3.120445000 | -2.410638000 | 0.885324000 | 6 | 4.618804000 | 0.144720000 | -2.664294000 |
| 6 | 3.469186000 | -3.517370000 | 0.124754000 | 1 | 2.496816000 | 0.251577000 | -2.755847000 |
| 6 | 2.563501000 | -4.119452000 | -0.712242000 | 6 | 5.605793000 | 0.757449000 | -0.567250000 |
| 6 | 1.289935000 | -3.541337000 | -0.772532000 | 1 | 4.248439000 | 1.318202000 | 0.965701000 |
| 6 | 0.924636000 | -2.418209000 | -0.025934000 | 6 | 5.747696000 | 0.330359000 | -1.877496000 |
| 15 | 1.523720000 | 1.187244000 | -0.235211000 | 8 | 1.567463000 | -2.317129000 | 3.689704000 |
| 15 | -0.665741000 | -1.579390000 | -0.403769000 | 8 | 4.181007000 | -2.058022000 | 1.674781000 |
| 1 | 1.336112000 | 1.955020000 | 4.713054000 | 8 | 1.392645000 | -0.777264000 | 5.378795000 |
| 1 | 1.448606000 | 2.652427000 | 2.332391000 | 8 | 4.754376000 | -3.878406000 | 0.407378000 |
| 1 | 2.820817000 | -4.997121000 | -1.298699000 | 29 | 0.004955000 | 0.195639000 | -1.506976000 |
| 1 | 0.557381000 | -3.990658000 | -1.434366000 | 6 | 1.713494000 | -2.126463000 | 5.084224000 |
| 6 | -1.599410000 | -2.857142000 | -1.324348000 | 1 | 1.026787000 | -2.791236000 | 5.619702000 |
| 6 | -2.497226000 | -3.727840000 | -0.733808000 | 1 | 2.757898000 | -2.328528000 | 5.377683000 |
| 6 | -1.414608000 | -2.942277000 | -2.708192000 | 6 | -0.385931000 | 0.745403000 | -3.402382000 |
| 6 | -3.186054000 | -4.669264000 | -1.484034000 | 1 | -0.605430000 | -0.088302000 | -4.081392000 |
| 1 | -2.678673000 | -3.675579000 | 0.319807000 | 6 | 0.500045000 | 1.781917000 | -4.066506000 |
| 6 | -2.085117000 | -3.878159000 | -3.456667000 | 1 | 1.324124000 | 1.300789000 | -4.610760000 |
| 1 | -0.744550000 | -2.257824000 | -3.189860000 | 1 | -0.047599000 | 2.404744000 | -4.797390000 |
| 6 | -2.979609000 | -4.751523000 | -2.847042000 | 1 | 0.969193000 | 2.472371000 | -3.350504000 |
| 6 | -1.570790000 | -1.401674000 | 1.165928000 | 6 | -1.617297000 | 1.228365000 | -2.778406000 |
| 6 | -2.514515000 | -0.374075000 | 1.256814000 | 6 | -1.723235000 | 2.507895000 | -2.184133000 |
| 6 | -1.398421000 | -2.235574000 | 2.258282000 | 6 | -2.781647000 | 0.420886000 | -2.699259000 |
| 6 | -3.260752000 | -0.201245000 | 2.397804000 | 6 | -2.870904000 | 2.915254000 | -1.518930000 |
| 1 | -2.670716000 | 0.289041000 | 0.428610000 | 1 | -0.881320000 | 3.195297000 | -2.252144000 |
| 6 | -2.142816000 | -2.060697000 | 3.413689000 | 6 | -3.922907000 | 0.835653000 | -2.043507000 |
| 1 | -0.657617000 | -3.009536000 | 2.234701000 | 1 | -2.758693000 | -0.570446000 | -3.152068000 |
| 6 | -3.078170000 | -1.044598000 | 3.486736000 | 6 | -3.999297000 | 2.093757000 | -1.419627000 |
| 6 | 1.443485000 | 3.014836000 | -0.125135000 | 1 | -2.904004000 | 3.921094000 | -1.097395000 |
| 6 | 2.475520000 | 3.850618000 | -0.508924000 | 1 | -4.773332000 | 0.155393000 | -1.982777000 |
| 6 | 0.253634000 | 3.603826000 | 0.321842000 | 6 | -5.204124000 | 2.516810000 | -0.688033000 |
| 6 | 2.344122000 | 5.231991000 | -0.451244000 | 6 | -6.482596000 | 2.108790000 | -1.093415000 |
| 1 | 3.395741000 | 3.436146000 | -0.864176000 | 6 | -5.112199000 | 3.334070000 | 0.447816000 |
| 6 | 0.123331000 | 4.966821000 | 0.397268000 | 6 | -7.617145000 | 2.497608000 | -0.393710000 |
| 1 | -0.572274000 | 2.981597000 | 0.604781000 | 1 | -6.585324000 | 1.497737000 | -1.989737000 |
| 6 | 1.171540000 | 5.795525000 | 0.005946000 | 6 | -6.246747000 | 3.728244000 | 1.145688000 |
| 6 | 3.209432000 | 0.833774000 | -0.833912000 | 1 | -4.128537000 | 3.645206000 | 0.799743000 |
| 6 | 3.368436000 | 0.392826000 | -2.148464000 | 6 | -7.507361000 | 3.310646000 | 0.730545000 |

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|---|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 1 | -8.598223000 | 2.170727000 | -0.736302000 | 1 | -1.955540000 | -4.073493000 | -3.674583000 |
| 1 | -6.143717000 | 4.358522000 | 2.028230000 | 6 | -2.388509000 | -3.015358000 | 2.866985000 |
| 1 | -8.397023000 | 3.616094000 | 1.278741000 | 6 | -3.566362000 | -2.850610000 | 2.179248000 |
| 1 | -1.978537000 | -2.716266000 | 4.242593000 | 6 | -3.595017000 | -2.237314000 | 0.936080000 |
| 1 | -3.876143000 | -5.321750000 | -0.992408000 | 6 | -2.476001000 | -1.733851000 | 0.307902000 |
| 1 | -1.948932000 | -3.950821000 | -4.515061000 | 6 | -1.251275000 | -1.896071000 | 1.000228000 |
| 1 | -3.990637000 | 0.577315000 | 2.469833000 | 6 | -1.231500000 | -2.531273000 | 2.243885000 |
| 1 | 3.162882000 | 5.843832000 | -0.765604000 | 6 | -2.649811000 | -1.157520000 | -1.050024000 |
| 1 | -0.779470000 | 5.424927000 | 0.742545000 | 6 | -2.915542000 | -2.031777000 | -2.081257000 |
| 1 | 6.461037000 | 0.905524000 | 0.057983000 | 6 | -3.213242000 | -1.620140000 | -3.374225000 |
| 1 | 4.751589000 | -0.191582000 | -3.670636000 | 6 | -3.307758000 | -0.288876000 | -3.695212000 |
| 8 | 0.944046000 | 7.138539000 | 0.109254000 | 6 | -3.043465000 | 0.623477000 | -2.666517000 |
| 8 | 6.948577000 | 0.066125000 | -2.473977000 | 6 | -2.719791000 | 0.227936000 | -1.369179000 |
| 8 | -3.858330000 | -0.793638000 | 4.580891000 | 15 | 0.291480000 | -1.311538000 | 0.191470000 |
| 8 | -3.604502000 | -5.644343000 | -3.671836000 | 15 | -1.994736000 | 1.456341000 | -0.222895000 |
| 6 | 1.930261000 | 8.090897000 | -0.323298000 | 1 | -2.356219000 | -3.493359000 | 3.842152000 |
| 1 | 2.157636000 | 7.969187000 | -1.374807000 | 1 | -0.282282000 | -2.653816000 | 2.756114000 |
| 1 | 1.487544000 | 9.058840000 | -0.157095000 | 1 | -3.556038000 | 0.041143000 | -4.699859000 |
| 1 | 2.841352000 | 8.002885000 | 0.255258000 | 1 | -3.071073000 | 1.682977000 | -2.900689000 |
| 6 | 8.186002000 | 0.245339000 | -1.766321000 | 6 | -2.495110000 | 3.092392000 | -0.876096000 |
| 1 | 8.243483000 | -0.405360000 | -0.902305000 | 6 | -3.554994000 | 3.815546000 | -0.354896000 |
| 1 | 8.959572000 | -0.017640000 | -2.468374000 | 6 | -1.746330000 | 3.670077000 | -1.910715000 |
| 1 | 8.313980000 | 1.273187000 | -1.450843000 | 6 | -3.876743000 | 5.072780000 | -0.841143000 |
| 6 | -4.577129000 | -6.569751000 | -3.158746000 | 1 | -4.139255000 | 3.410921000 | 0.444740000 |
| 1 | -5.414798000 | -6.050442000 | -2.710465000 | 6 | -2.067548000 | 4.912839000 | -2.398864000 |
| 1 | -4.914858000 | -7.134475000 | -4.011814000 | 1 | -0.931552000 | 3.123065000 | -2.339182000 |
| 1 | -4.136776000 | -7.239044000 | -2.430235000 | 6 | -3.134570000 | 5.626772000 | -1.865994000 |
| 6 | -3.724814000 | -1.572661000 | 5.780212000 | 6 | -2.903156000 | 1.338727000 | 1.352544000 |
| 1 | -2.725960000 | -1.493242000 | 6.191056000 | 6 | -2.262175000 | 1.754510000 | 2.521449000 |
| 1 | -4.436209000 | -1.156581000 | 6.474204000 | 6 | -4.213293000 | 0.898608000 | 1.447734000 |
| 1 | -3.959105000 | -2.614757000 | 5.601267000 | 6 | -2.908989000 | 1.728580000 | 3.733573000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|-------------|
| 6 | 1.239305000 | 1.092592000 | -2.226570000 | 1 | -4.725591000 | 0.545710000 | 0.575383000 |
| 8 | 0.126448000 | 1.290976000 | -2.723898000 | 6 | -4.221450000 | 1.279901000 | 3.815183000 |
| 8 | 2.290266000 | 0.581727000 | -2.525575000 | 6 | 1.514443000 | -1.451167000 | 1.547099000 |
| 6 | -2.982608000 | -3.809135000 | -3.373006000 | 6 | 2.621657000 | -2.273489000 | 1.484111000 |
| 1 | -3.665333000 | -4.655661000 | -3.496748000 | 6 | 1.370313000 | -0.620748000 | 2.666401000 |

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | 3.571483000 | -2.276049000 | 2.497951000 | 1 | 9.738682000 | -0.566096000 | 0.627506000 |
| 1 | 2.764627000 | -2.914223000 | 0.638787000 | 1 | 5.399374000 | 0.535553000 | 1.331972000 |
| 6 | 2.297825000 | -0.626668000 | 3.675476000 | 1 | 6.045850000 | 3.369376000 | -1.829521000 |
| 1 | 0.514130000 | 0.022225000 | 2.745528000 | 1 | 3.610105000 | 3.614772000 | -2.092207000 |
| 6 | 3.414894000 | -1.455921000 | 3.595867000 | 1 | 2.980681000 | 0.769850000 | 1.050012000 |
| 6 | 0.691292000 | -2.679017000 | -0.953392000 | 6 | 1.070548000 | 2.989939000 | 0.631647000 |
| 6 | 1.518419000 | -2.452121000 | -2.058409000 | 1 | 1.682148000 | 3.861010000 | 0.921485000 |
| 6 | 0.214251000 | -3.965383000 | -0.742865000 | 1 | 1.122122000 | 2.294918000 | 1.482804000 |
| 6 | 1.851893000 | -3.483163000 | -2.906205000 | 1 | 0.038273000 | 3.341541000 | 0.533687000 |
| 1 | 1.903433000 | -1.473834000 | -2.260966000 | 1 | 1.452873000 | 3.190249000 | -1.437620000 |
| 6 | 0.545976000 | -5.003033000 | -1.596384000 | 1 | -4.700283000 | 5.601342000 | -0.409823000 |
| 1 | -0.433276000 | -4.169491000 | 0.083946000 | 1 | -1.506636000 | 5.359605000 | -3.192488000 |
| 6 | 1.370466000 | -4.765735000 | -2.682361000 | 1 | -5.878769000 | 0.511416000 | 2.704531000 |
| 8 | -4.891386000 | -2.159338000 | 0.502640000 | 1 | -2.426536000 | 2.046002000 | 4.633719000 |
| 8 | -2.981666000 | -3.396074000 | -2.016919000 | 1 | 2.483833000 | -3.317354000 | -3.752674000 |
| 8 | -4.835112000 | -3.189712000 | 2.548551000 | 1 | 0.157741000 | -5.980438000 | -1.401991000 |
| 8 | -3.440580000 | -2.716182000 | -4.153595000 | 1 | 4.419691000 | -2.921298000 | 2.410459000 |
| 29 | 0.153900000 | 0.816308000 | -0.476301000 | 1 | 2.196274000 | 0.000866000 | 4.535534000 |
| 6 | -5.617134000 | -3.000114000 | 1.379528000 | 8 | -3.370764000 | 6.855957000 | -2.413114000 |
| 1 | -6.565403000 | -2.522069000 | 1.647011000 | 8 | -4.781255000 | 1.282417000 | 5.060820000 |
| 1 | -5.794825000 | -3.975218000 | 0.895045000 | 8 | 1.755389000 | -5.722655000 | -3.578551000 |
| 6 | 8.226039000 | 2.890760000 | -0.199455000 | 8 | 4.285669000 | -1.386728000 | 4.644508000 |
| 6 | 9.599719000 | 2.755568000 | -0.044010000 | 6 | -4.439895000 | 7.687709000 | -1.933100000 |
| 6 | 10.152634000 | 1.515317000 | 0.259161000 | 1 | -4.395059000 | 8.585143000 | -2.527456000 |
| 6 | 9.316280000 | 0.412577000 | 0.402567000 | 1 | -5.401584000 | 7.208826000 | -2.068685000 |
| 6 | 7.942981000 | 0.549428000 | 0.244246000 | 1 | -4.305402000 | 7.935927000 | -0.887759000 |
| 6 | 7.371038000 | 1.791040000 | -0.058780000 | 6 | -6.109490000 | 0.775859000 | 5.277656000 |
| 6 | 5.912448000 | 1.937302000 | -0.224345000 | 1 | -6.282661000 | 0.868512000 | 6.336857000 |
| 6 | 5.375474000 | 2.810625000 | -1.175926000 | 1 | -6.844932000 | 1.358092000 | 4.736806000 |
| 6 | 4.003502000 | 2.944431000 | -1.326161000 | 1 | -6.184105000 | -0.263837000 | 4.984714000 |
| 6 | 3.106939000 | 2.221559000 | -0.535617000 | 6 | 5.520399000 | -2.124884000 | 4.632742000 |
| 6 | 5.016441000 | 1.208468000 | 0.564850000 | 1 | 6.023283000 | -1.857495000 | 5.546926000 |
| 6 | 3.645204000 | 1.349942000 | 0.413549000 | 1 | 5.339133000 | -3.192130000 | 4.614641000 |
| 6 | 1.634343000 | 2.406770000 | -0.687476000 | 1 | 6.133274000 | -1.847406000 | 3.784441000 |
| 1 | 11.229307000 | 1.408433000 | 0.381137000 | 6 | 1.340328000 | -7.089962000 | -3.429628000 |
| 1 | 10.242731000 | 3.628089000 | -0.151738000 | 1 | 1.792355000 | -7.618911000 | -4.252100000 |
| 1 | 7.798378000 | 3.870923000 | -0.409005000 | 1 | 1.687997000 | -7.507159000 | -2.492825000 |
| 1 | 7.296677000 | -0.324379000 | 0.325267000 | 1 | 0.262759000 | -7.183133000 | -3.485947000 |

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| | | | | 1 | 2.673381000 | 0.015832000 | -2.938317000 |
| 8 | 0.923294000 | 3.991693000 | 0.237412000 | 6 | 4.713426000 | -2.495249000 | -0.886527000 |
| 6 | 0.068459000 | 3.152355000 | 0.409628000 | 1 | 4.152921000 | -1.359394000 | 0.812483000 |
| 8 | -0.599289000 | 2.665632000 | 1.311200000 | 6 | 4.617614000 | -2.643512000 | -2.256362000 |
| 29 | 0.289281000 | 1.229663000 | -0.485208000 | 6 | -1.336553000 | -1.540251000 | -1.676573000 |
| 15 | 2.497701000 | 0.939338000 | -0.271851000 | 6 | -0.473474000 | -1.687279000 | -2.769464000 |
| 15 | -0.682056000 | -0.765756000 | -0.149925000 | 6 | -2.654511000 | -1.925737000 | -1.833102000 |
| 1 | 2.976699000 | -4.250188000 | 4.127809000 | 6 | -0.920646000 | -2.198853000 | -3.961400000 |
| 6 | 3.510065000 | -3.945727000 | 3.211179000 | 1 | 0.559617000 | -1.415844000 | -2.673200000 |
| 6 | -0.048685000 | -0.302562000 | 5.247149000 | 6 | -3.114510000 | -2.440278000 | -3.038016000 |
| 6 | 2.019070000 | 2.059333000 | 3.596178000 | 6 | -2.252468000 | -2.577199000 | -4.106850000 |
| 6 | 1.307245000 | 1.006458000 | 4.113192000 | 6 | -2.008436000 | -0.896833000 | 1.093963000 |
| 6 | 1.110301000 | -0.162229000 | 3.386684000 | 6 | -2.551582000 | 0.255996000 | 1.660829000 |
| 6 | 1.557003000 | -0.339014000 | 2.095093000 | 6 | -2.488398000 | -2.130459000 | 1.518646000 |
| 6 | 2.288485000 | 0.750763000 | 1.534958000 | 6 | -3.547370000 | 0.165973000 | 2.609542000 |
| 6 | 2.489441000 | 1.911632000 | 2.286884000 | 1 | -2.179799000 | 1.218062000 | 1.381212000 |
| 6 | 1.392558000 | -1.684358000 | 1.485520000 | 6 | -3.489824000 | -2.224157000 | 2.464741000 |
| 6 | 2.170196000 | -2.709959000 | 1.979322000 | 1 | -2.070467000 | -3.034168000 | 1.122881000 |
| 6 | 2.132841000 | -4.008590000 | 1.494345000 | 6 | -4.025212000 | -1.069828000 | 3.015495000 |
| 6 | 1.285414000 | -4.364376000 | 0.473035000 | 8 | 0.754363000 | 0.863395000 | 5.351134000 |
| 6 | 0.463106000 | -3.350288000 | -0.032380000 | 8 | 0.458410000 | -1.072386000 | 4.170532000 |
| 6 | 0.494624000 | -2.040959000 | 0.452020000 | 8 | 3.184957000 | -2.605479000 | 2.895812000 |
| 1 | 2.182240000 | 2.973070000 | 4.160037000 | 8 | 3.084160000 | -4.757319000 | 2.126648000 |
| 1 | 3.001338000 | 2.751863000 | 1.825824000 | 1 | 4.592872000 | -4.041417000 | 3.337800000 |
| 1 | 1.263572000 | -5.373745000 | 0.071271000 | 1 | 0.022809000 | -0.878521000 | 6.174724000 |
| 1 | -0.219067000 | -3.594703000 | -0.841668000 | 1 | -1.090363000 | -0.013514000 | 5.030266000 |
| 6 | 3.810504000 | 2.192176000 | -0.492676000 | 1 | -3.341987000 | -1.813399000 | -1.021272000 |
| 6 | 3.531750000 | 3.431836000 | -1.067139000 | 6 | -0.826386000 | 2.830156000 | -1.437354000 |
| 6 | 5.129363000 | 1.907173000 | -0.160787000 | 6 | -2.277886000 | 2.545981000 | -1.305914000 |
| 6 | 4.538995000 | 4.341005000 | -1.302674000 | 6 | -2.936542000 | 1.551074000 | -2.037615000 |
| 1 | 2.523235000 | 3.702384000 | -1.284743000 | 6 | -3.062636000 | 3.318278000 | -0.435176000 |
| 6 | 6.142095000 | 2.818644000 | -0.385392000 | 6 | -4.299115000 | 1.327649000 | -1.892494000 |
| 1 | 5.380613000 | 0.959847000 | 0.271038000 | 1 | -2.379488000 | 0.938986000 | -2.744790000 |
| 6 | 5.849590000 | 4.042761000 | -0.965325000 | 6 | -4.422873000 | 3.101200000 | -0.294803000 |
| 6 | 3.310637000 | -0.536843000 | -0.969950000 | 1 | -2.582607000 | 4.100539000 | 0.153196000 |
| 6 | 3.234578000 | -0.691901000 | -2.356654000 | 6 | -5.074181000 | 2.093642000 | -1.017707000 |
| 6 | 4.068746000 | -1.444385000 | -0.252110000 | 1 | -4.777795000 | 0.561326000 | -2.502245000 |
| 6 | 3.875029000 | -1.727349000 | -2.992112000 | 1 | -4.992107000 | 3.707265000 | 0.410661000 |

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|---|---------------|--------------|--------------|
| 6 | -0.170593000 | 2.377697000 | -2.744441000 |
| 1 | -0.673991000 | 2.843837000 | -3.608676000 |
| 1 | 0.881579000 | 2.689476000 | -2.777936000 |
| 1 | -0.200174000 | 1.293488000 | -2.930948000 |
| 6 | -6.520641000 | 1.850412000 | -0.865818000 |
| 6 | -7.416268000 | 2.906832000 | -0.660358000 |
| 6 | -7.040014000 | 0.551451000 | -0.923025000 |
| 6 | -8.778409000 | 2.673684000 | -0.518422000 |
| 1 | -7.036645000 | 3.928082000 | -0.638037000 |
| 6 | -8.401863000 | 0.316476000 | -0.785149000 |
| 1 | -6.354456000 | -0.286602000 | -1.046403000 |
| 6 | -9.279128000 | 1.377127000 | -0.581724000 |
| 1 | -9.455434000 | 3.513200000 | -0.366461000 |
| 1 | -8.780343000 | -0.704257000 | -0.824837000 |
| 1 | -10.346768000 | 1.194403000 | -0.471335000 |
| 1 | -0.699860000 | 3.917420000 | -1.417079000 |
| 1 | 7.144546000 | 2.563500000 | -0.114403000 |
| 1 | 4.332101000 | 5.295537000 | -1.737804000 |
| 1 | 5.276313000 | -3.188673000 | -0.298355000 |
| 1 | 3.824448000 | -1.852700000 | -4.053111000 |
| 1 | -3.973894000 | 1.044545000 | 3.044592000 |
| 1 | -3.832699000 | -3.190077000 | 2.769925000 |
| 1 | -0.266916000 | -2.319596000 | -4.799224000 |
| 1 | -4.142369000 | -2.723771000 | -3.121700000 |
| 8 | -5.009259000 | -1.059647000 | 3.963868000 |
| 8 | 6.780465000 | 5.005019000 | -1.236775000 |
| 8 | 5.211649000 | -3.646719000 | -2.969690000 |
| 8 | -2.605526000 | -3.069358000 | -5.330481000 |
| 6 | 8.166703000 | 4.809455000 | -0.912808000 |
| 1 | 8.580237000 | 3.963796000 | -1.447951000 |
| 1 | 8.664537000 | 5.713017000 | -1.223421000 |
| 1 | 8.305328000 | 4.665034000 | 0.151336000 |
| 6 | 5.988431000 | -4.661932000 | -2.311691000 |
| 1 | 6.322133000 | -5.321505000 | -3.095438000 |
| 1 | 6.845421000 | -4.234494000 | -1.806393000 |
| 1 | 5.388884000 | -5.214759000 | -1.599499000 |
| 6 | -3.963989000 | -3.447920000 | -5.613219000 |
| 1 | -3.963496000 | -3.773574000 | -6.639987000 |

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|---|--------------|--------------|--------------|
| 1 | -4.286092000 | -4.259929000 | -4.973512000 |
| 1 | -4.636860000 | -2.607762000 | -5.497052000 |
| 6 | -5.612590000 | -2.280030000 | 4.422002000 |
| 1 | -4.886739000 | -2.921458000 | 4.906335000 |
| 1 | -6.362734000 | -1.979944000 | 5.134747000 |
| 1 | -6.080201000 | -2.818107000 | 3.606887000 |

L3-inner-TS2-III

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|----|--------------|--------------|--------------|
| 29 | 0.174302000 | 0.263635000 | -1.663651000 |
| 15 | 1.802499000 | 1.022342000 | -0.345210000 |
| 15 | -0.771125000 | -1.449737000 | -0.475643000 |
| 1 | 4.460506000 | -3.342907000 | 3.961334000 |
| 6 | 4.267732000 | -3.028909000 | 2.929385000 |
| 6 | -0.209135000 | -1.003303000 | 5.254164000 |
| 6 | -0.051926000 | 1.938887000 | 3.235732000 |
| 6 | -0.016086000 | 0.719255000 | 3.864950000 |
| 6 | 0.496127000 | -0.404516000 | 3.233778000 |
| 6 | 1.018202000 | -0.390395000 | 1.956862000 |
| 6 | 1.097745000 | 0.887503000 | 1.338476000 |
| 6 | 0.517183000 | 1.996734000 | 1.957203000 |
| 6 | 1.379503000 | -1.695426000 | 1.344293000 |
| 6 | 2.420167000 | -2.421401000 | 1.880575000 |
| 6 | 2.780479000 | -3.686154000 | 1.433771000 |
| 6 | 2.092497000 | -4.313715000 | 0.426024000 |
| 6 | 1.010089000 | -3.612588000 | -0.123422000 |
| 6 | 0.639690000 | -2.340304000 | 0.307770000 |
| 1 | -0.504021000 | 2.809421000 | 3.702627000 |
| 1 | 0.509936000 | 2.948181000 | 1.432397000 |
| 1 | 2.366583000 | -5.305955000 | 0.078641000 |
| 1 | 0.434415000 | -4.090521000 | -0.910026000 |
| 6 | 2.306521000 | 2.772395000 | -0.544490000 |
| 6 | 2.298454000 | 3.297225000 | -1.841495000 |
| 6 | 2.793429000 | 3.578645000 | 0.475376000 |
| 6 | 2.722941000 | 4.582261000 | -2.087469000 |
| 1 | 1.998637000 | 2.681655000 | -2.665025000 |
| 6 | 3.216840000 | 4.873684000 | 0.233826000 |
| 1 | 2.836692000 | 3.211565000 | 1.480110000 |
| 6 | 3.177890000 | 5.384578000 | -1.051186000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | 3.394307000 | 0.122900000 | -0.269376000 | 6 | -3.923309000 | 1.399921000 | -1.745869000 |
| 6 | 3.658694000 | -0.922201000 | -1.155321000 | 1 | -3.105256000 | -0.108750000 | -3.021735000 |
| 6 | 4.388971000 | 0.490958000 | 0.623855000 | 6 | -2.446828000 | 3.157647000 | -1.071528000 |
| 6 | 4.880118000 | -1.556525000 | -1.148657000 | 1 | -0.463503000 | 3.094531000 | -1.878675000 |
| 1 | 2.911145000 | -1.250968000 | -1.845825000 | 6 | -3.727830000 | 2.592622000 | -1.034490000 |
| 6 | 5.618605000 | -0.141086000 | 0.634533000 | 1 | -4.910101000 | 0.937320000 | -1.750537000 |
| 1 | 4.219100000 | 1.282280000 | 1.324531000 | 1 | -2.242231000 | 4.066177000 | -0.504666000 |
| 6 | 5.871399000 | -1.166623000 | -0.261262000 | 6 | -1.099519000 | 0.086414000 | -4.651156000 |
| 6 | -1.643452000 | -2.727168000 | -1.472113000 | 1 | -1.980817000 | 0.545856000 | -5.127341000 |
| 6 | -1.083776000 | -3.139723000 | -2.690325000 | 1 | -0.332515000 | -0.047369000 | -5.423688000 |
| 6 | -2.869026000 | -3.261293000 | -1.109752000 | 1 | -1.386498000 | -0.916361000 | -4.311460000 |
| 6 | -1.717619000 | -4.070997000 | -3.476351000 | 6 | -4.823516000 | 3.226177000 | -0.278269000 |
| 1 | -0.159357000 | -2.713715000 | -3.021786000 | 6 | -4.900505000 | 4.619813000 | -0.156618000 |
| 6 | -3.517462000 | -4.191239000 | -1.909018000 | 6 | -5.822431000 | 2.457906000 | 0.334459000 |
| 6 | -2.940981000 | -4.607218000 | -3.091865000 | 6 | -5.930041000 | 5.221514000 | 0.554905000 |
| 6 | -1.883684000 | -1.184390000 | 0.950682000 | 1 | -4.155959000 | 5.240257000 | -0.654489000 |
| 6 | -2.530583000 | 0.035003000 | 1.132064000 | 6 | -6.853147000 | 3.059205000 | 1.045992000 |
| 6 | -2.126996000 | -2.197862000 | 1.868935000 | 1 | -5.769636000 | 1.371238000 | 0.278995000 |
| 6 | -3.410213000 | 0.220909000 | 2.175791000 | 6 | -6.912291000 | 4.444262000 | 1.161006000 |
| 1 | -2.345080000 | 0.846671000 | 0.462727000 | 1 | -5.971123000 | 6.307382000 | 0.627413000 |
| 6 | -3.014544000 | -2.022029000 | 2.914919000 | 1 | -7.610340000 | 2.438363000 | 1.522477000 |
| 1 | -1.618764000 | -3.136705000 | 1.773952000 | 1 | -7.719623000 | 4.915526000 | 1.718862000 |
| 6 | -3.666954000 | -0.809444000 | 3.067674000 | 1 | -3.340488000 | -2.956188000 | -0.200717000 |
| 8 | -0.489617000 | 0.378060000 | 5.095088000 | 1 | 3.575441000 | 5.464519000 | 1.050024000 |
| 8 | 0.335305000 | -1.491028000 | 4.041650000 | 1 | 2.722194000 | 4.984473000 | -3.078326000 |
| 8 | 3.233710000 | -2.060495000 | 2.915861000 | 1 | -4.464175000 | -4.575135000 | -1.592390000 |
| 8 | 3.829903000 | -4.145606000 | 2.171917000 | 1 | -1.292717000 | -4.393221000 | -4.403638000 |
| 1 | 5.172910000 | -2.605120000 | 2.467439000 | 1 | -3.910758000 | 1.154558000 | 2.318505000 |
| 1 | 0.521613000 | -1.138305000 | 6.066768000 | 1 | -3.185320000 | -2.829579000 | 3.595301000 |
| 1 | -1.138777000 | -1.540475000 | 5.480900000 | 1 | 6.364586000 | 0.178763000 | 1.331151000 |
| 8 | 1.256578000 | -1.240101000 | -3.328407000 | 1 | 5.091594000 | -2.354440000 | -1.828101000 |
| 6 | 1.318161000 | -0.024028000 | -3.475144000 | 8 | 3.567376000 | 6.649246000 | -1.389326000 |
| 8 | 2.053168000 | 0.822347000 | -3.918208000 | 8 | -4.568755000 | -0.541359000 | 4.059832000 |
| 6 | -0.579002000 | 0.939505000 | -3.514410000 | 8 | -3.493932000 | -5.522577000 | -3.942732000 |
| 1 | -0.045634000 | 1.819852000 | -3.883266000 | 8 | 7.055029000 | -1.848593000 | -0.333536000 |
| 6 | -1.629691000 | 1.408924000 | -2.570514000 | 6 | 4.094259000 | 7.552798000 | -0.403851000 |
| 6 | -2.906336000 | 0.815814000 | -2.481348000 | 1 | 4.992781000 | 7.156422000 | 0.052256000 |
| 6 | -1.431139000 | 2.593277000 | -1.828157000 | 1 | 4.328720000 | 8.457437000 | -0.939751000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 1 | 3.362902000 | 7.765291000 | 0.365995000 | 1 | -1.506686000 | 2.893000000 | -2.026086000 |
| 6 | 8.184945000 | -1.458151000 | 0.462526000 | 6 | -2.731548000 | 5.174492000 | 0.319951000 |
| 1 | 7.983846000 | -1.578091000 | 1.520293000 | 1 | -1.196919000 | 3.835557000 | 0.770902000 |
| 1 | 8.984703000 | -2.118650000 | 0.171180000 | 6 | -4.772354000 | 4.262698000 | -0.532379000 |
| 1 | 8.469070000 | -0.431976000 | 0.266065000 | 1 | -4.829403000 | 2.161622000 | -0.749471000 |
| 6 | -4.766581000 | -6.124700000 | -3.655997000 | 6 | -5.035686000 | -1.020516000 | 2.059262000 |
| 1 | -4.961787000 | -6.791237000 | -4.479614000 | 1 | -3.324089000 | 0.134224000 | 2.523358000 |
| 1 | -4.735852000 | -6.687702000 | -2.731442000 | 6 | -5.555685000 | -1.254974000 | -0.265963000 |
| 1 | -5.549847000 | -5.379292000 | -3.597349000 | 1 | -4.229861000 | -0.304450000 | -1.617648000 |
| 6 | -4.903748000 | -1.530143000 | 5.045775000 | 6 | -2.304513000 | -4.345350000 | -0.310890000 |
| 1 | -4.035093000 | -1.821249000 | 5.623537000 | 1 | -0.826060000 | -3.953107000 | 1.189107000 |
| 1 | -5.625203000 | -1.059230000 | 5.692604000 | 6 | -2.494847000 | -2.591085000 | -1.948765000 |
| 1 | -5.341989000 | -2.409436000 | 4.590256000 | 6 | 0.039138000 | -2.910074000 | 4.300056000 |

L3-outer-TS2- η^1

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 29 | -0.243798000 | 0.711980000 | 0.996383000 | 1 | 2.811677000 | -2.725190000 | 1.664411000 |
| 15 | -2.206453000 | 1.116284000 | 0.093687000 | 6 | 3.807076000 | -0.951278000 | -1.704398000 |
| 15 | 0.423410000 | -1.335288000 | 0.560941000 | 1 | 2.625035000 | 0.306579000 | -0.490889000 |
| 6 | -1.575178000 | 0.793481000 | -1.597959000 | 6 | 3.077957000 | -3.223983000 | -1.922139000 |
| 6 | -2.927877000 | 2.790630000 | -0.007300000 | 1 | 1.306567000 | -3.730471000 | -0.882662000 |
| 6 | -3.631091000 | 0.032918000 | 0.405127000 | 6 | -0.106742000 | 0.536355000 | -3.937336000 |
| 6 | -0.928466000 | -2.317986000 | -0.193272000 | 8 | -0.045999000 | -1.705909000 | -3.839525000 |
| 6 | 0.786077000 | -2.241101000 | 2.105483000 | 1 | -0.197202000 | 2.679068000 | -4.127991000 |
| 6 | 1.813400000 | -1.679325000 | -0.561556000 | 6 | -4.025409000 | 5.362023000 | -0.144928000 |
| 6 | -1.180843000 | -0.510381000 | -2.014636000 | 1 | -2.163434000 | 6.024772000 | 0.632089000 |
| 6 | -1.208970000 | 1.904322000 | -2.362933000 | 1 | -5.775758000 | 4.376358000 | -0.884293000 |
| 6 | -2.193005000 | 3.911250000 | 0.392383000 | 6 | -5.851710000 | -1.530124000 | 1.056108000 |
| 6 | -4.224600000 | 2.995561000 | -0.459157000 | 1 | -5.283921000 | -1.243479000 | 3.075240000 |
| 6 | -3.943226000 | -0.253534000 | 1.736318000 | 1 | -6.164038000 | -1.642233000 | -1.055502000 |
| 6 | -4.454570000 | -0.477216000 | -0.584238000 | 6 | -2.879168000 | -3.825512000 | -1.444960000 |
| 6 | -1.311411000 | -3.566481000 | 0.297981000 | 1 | -2.604743000 | -5.308125000 | 0.093313000 |
| 6 | -1.543562000 | -1.791166000 | -1.355942000 | 8 | -3.268965000 | -2.288921000 | -3.036970000 |
| 6 | -0.207063000 | -2.312556000 | 3.091662000 | 6 | 1.296013000 | -3.444029000 | 4.575473000 |
| 6 | 2.028036000 | -2.774133000 | 2.391952000 | 1 | -0.712702000 | -2.973316000 | 5.057955000 |
| 6 | 2.734470000 | -0.682151000 | -0.882490000 | 1 | 3.261913000 | -3.767543000 | 3.806059000 |
| 6 | 2.004865000 | -2.947147000 | -1.097538000 | 6 | 3.988210000 | -2.223892000 | -2.227291000 |
| 6 | -0.474736000 | -0.580824000 | -3.197016000 | 1 | 4.524945000 | -0.194529000 | -1.938175000 |
| 6 | -0.470477000 | 1.801767000 | -3.548562000 | 1 | 3.192354000 | -4.211437000 | -2.316474000 |

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| 6 | -0.849708000 | -3.676166000 | -0.205088000 | 8 | 0.627272000 | -1.387933000 | -4.051420000 |
| 6 | -0.495575000 | -2.366067000 | -0.530503000 | 8 | -2.576322000 | -2.162166000 | -3.564251000 |
| 1 | 0.385302000 | 2.999597000 | -3.900309000 | 8 | -3.133518000 | -4.314452000 | -3.015790000 |
| 1 | -1.074384000 | 2.969860000 | -1.887017000 | 1 | -4.135474000 | -3.194527000 | -4.427886000 |
| 1 | -2.007070000 | -5.453452000 | -0.701596000 | 1 | 1.524307000 | -1.263543000 | -5.902114000 |
| 1 | -0.432770000 | -4.127671000 | 0.689514000 | 1 | 2.591231000 | -0.914910000 | -4.476569000 |
| 6 | -2.784311000 | 2.570017000 | -0.074507000 | 1 | 3.092487000 | -2.817646000 | 1.591821000 |
| 6 | -2.655372000 | 3.494116000 | 0.962636000 | 6 | 0.036958000 | 1.461154000 | 3.283201000 |
| 6 | -3.698340000 | 2.849216000 | -1.085536000 | 1 | -0.979419000 | 1.654452000 | 2.939788000 |
| 6 | -3.398832000 | 4.655089000 | 0.970316000 | 6 | 1.130202000 | 1.797233000 | 2.415606000 |
| 1 | -1.979272000 | 3.341736000 | 1.777826000 | 6 | 2.475562000 | 1.429082000 | 2.741366000 |
| 6 | -4.442463000 | 4.011124000 | -1.084692000 | 6 | 0.973268000 | 2.594179000 | 1.231111000 |
| 1 | -3.829010000 | 2.158327000 | -1.894443000 | 6 | 3.544373000 | 1.867216000 | 2.001805000 |
| 6 | -4.295378000 | 4.923494000 | -0.050350000 | 1 | 2.649780000 | 0.833742000 | 3.635978000 |
| 6 | -3.218058000 | -0.234229000 | 0.159034000 | 6 | 2.089553000 | 3.016039000 | 0.497745000 |
| 6 | -3.516199000 | -0.646737000 | 1.459715000 | 1 | 0.032445000 | 3.105062000 | 1.039384000 |
| 6 | -4.005927000 | -0.711857000 | -0.874164000 | 6 | 3.390899000 | 2.678856000 | 0.851750000 |
| 6 | -4.560895000 | -1.503988000 | 1.710217000 | 1 | 4.549576000 | 1.608737000 | 2.335790000 |
| 1 | -2.925019000 | -0.289840000 | 2.282232000 | 1 | 1.914933000 | 3.636853000 | -0.382157000 |
| 6 | -5.055595000 | -1.581026000 | -0.629923000 | 6 | 0.214980000 | 0.451942000 | 4.381202000 |
| 1 | -3.791086000 | -0.443028000 | -1.889074000 | 1 | 0.800645000 | 0.883003000 | 5.208462000 |
| 6 | -5.339362000 | -1.979687000 | 0.663281000 | 1 | -0.757134000 | 0.160787000 | 4.799209000 |
| 6 | 1.012091000 | -2.495132000 | 1.914501000 | 1 | 0.719081000 | -0.467874000 | 4.057981000 |
| 6 | -0.049947000 | -2.753097000 | 2.790865000 | 6 | 4.555419000 | 3.149270000 | 0.082452000 |
| 6 | 2.256380000 | -3.006162000 | 2.232683000 | 6 | 4.524219000 | 4.366532000 | -0.613144000 |
| 6 | 0.131317000 | -3.514360000 | 3.916082000 | 6 | 5.739371000 | 2.399365000 | 0.023585000 |
| 1 | -1.023389000 | -2.353094000 | 2.580946000 | 6 | 5.618567000 | 4.805530000 | -1.345967000 |
| 6 | 2.449781000 | -3.764134000 | 3.379785000 | 1 | 3.635394000 | 4.993428000 | -0.551139000 |
| 6 | 1.389576000 | -4.026380000 | 4.222262000 | 6 | 6.836784000 | 2.839861000 | -0.706210000 |
| 6 | 2.209900000 | -1.546761000 | -0.561905000 | 1 | 5.790268000 | 1.439212000 | 0.536132000 |
| 6 | 2.990649000 | -0.420928000 | -0.814970000 | 6 | 6.782983000 | 4.044893000 | -1.398667000 |
| 6 | 2.593769000 | -2.755069000 | -1.129458000 | 1 | 5.565646000 | 5.758828000 | -1.870252000 |
| 6 | 4.118793000 | -0.506659000 | -1.602121000 | 1 | 7.738942000 | 2.230384000 | -0.739058000 |
| 1 | 2.722257000 | 0.525275000 | -0.394152000 | 1 | 7.641998000 | 4.390804000 | -1.970950000 |
| 6 | 3.727631000 | -2.851166000 | -1.913009000 | 8 | -0.713100000 | 4.031901000 | 3.540043000 |
| 1 | 2.000425000 | -3.633085000 | -0.970506000 | 6 | -0.023827000 | 3.358967000 | 4.252101000 |
| 6 | 4.497752000 | -1.723360000 | -2.150983000 | 8 | 0.643786000 | 3.219898000 | 5.227000000 |
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| 1 | -4.799375000 | -1.821474000 | 2.703253000 | 6 | -0.588210000 | -0.864607000 | -2.096506000 |
| 1 | -3.292893000 | 5.364382000 | 1.763208000 | 6 | -1.012310000 | 0.440066000 | -1.725036000 |
| 1 | -5.130368000 | 4.191904000 | -1.883304000 | 6 | -0.610001000 | 1.540926000 | -2.485966000 |
| 1 | 3.428540000 | -4.137122000 | 3.595026000 | 6 | -0.727731000 | -2.097095000 | -1.278434000 |
| 1 | -0.674239000 | -3.719703000 | 4.588755000 | 6 | -1.568153000 | -3.103195000 | -1.699277000 |
| 1 | 4.723462000 | 0.353446000 | -1.794329000 | 6 | -1.699681000 | -4.314596000 | -1.033606000 |
| 1 | 3.994652000 | -3.798154000 | -2.332008000 | 6 | -0.975722000 | -4.594911000 | 0.097755000 |
| 8 | -4.986144000 | 6.098016000 | 0.038550000 | 6 | -0.093594000 | -3.599011000 | 0.539149000 |
| 8 | -6.349842000 | -2.833603000 | 1.004130000 | 6 | 0.050627000 | -2.377987000 | -0.117544000 |
| 8 | 5.631747000 | -1.717403000 | -2.913533000 | 1 | 0.416631000 | 2.283531000 | -4.258683000 |
| 8 | 1.472079000 | -4.766945000 | 5.365694000 | 1 | -0.869087000 | 2.539719000 | -2.144771000 |
| 6 | -5.957001000 | 6.468108000 | -0.953950000 | 1 | -1.077563000 | -5.541759000 | 0.620596000 |
| 1 | -6.346266000 | 7.420075000 | -0.633380000 | 1 | 0.500923000 | -3.792222000 | 1.427005000 |
| 1 | -5.501482000 | 6.571988000 | -1.930900000 | 6 | -2.847542000 | 2.225617000 | -0.280989000 |
| 1 | -6.761313000 | 5.744977000 | -1.006432000 | 6 | -3.267008000 | 2.813046000 | 0.907058000 |
| 6 | -7.208904000 | -3.402988000 | 0.001910000 | 6 | -3.350763000 | 2.745153000 | -1.475836000 |
| 1 | -7.899410000 | -4.031637000 | 0.539121000 | 6 | -4.108488000 | 3.913524000 | 0.905363000 |
| 1 | -7.755197000 | -2.633942000 | -0.529675000 | 1 | -2.978633000 | 2.396826000 | 1.853945000 |
| 1 | -6.645551000 | -3.999880000 | -0.704368000 | 6 | -4.180534000 | 3.840996000 | -1.482161000 |
| 6 | 6.145269000 | -2.928184000 | -3.493634000 | 1 | -3.096997000 | 2.290622000 | -2.410867000 |
| 1 | 5.442005000 | -3.357825000 | -4.196271000 | 6 | -4.559771000 | 4.440911000 | -0.288159000 |
| 1 | 7.043976000 | -2.639115000 | -4.012485000 | 6 | -3.149104000 | -0.564433000 | 0.010574000 |
| 1 | 6.383423000 | -3.659351000 | -2.731387000 | 6 | -3.297603000 | -1.245558000 | 1.220002000 |
| 6 | 2.733915000 | -5.280120000 | 5.827310000 | 6 | -4.075483000 | -0.788273000 | -0.995198000 |
| 1 | 3.440119000 | -4.479239000 | 6.005710000 | 6 | -4.339431000 | -2.128187000 | 1.399207000 |
| 1 | 2.516584000 | -5.786024000 | 6.753092000 | 1 | -2.607078000 | -1.067061000 | 2.021248000 |
| 1 | 3.154735000 | -5.982138000 | 5.118422000 | 6 | -5.125597000 | -1.670288000 | -0.817273000 |

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| 29 | -0.208987000 | 0.430715000 | 1.323117000 | 6 | -5.260293000 | -2.344333000 | 0.386143000 |
| 15 | -1.846293000 | 0.699438000 | -0.122437000 | 6 | 2.129253000 | -1.979409000 | 1.843405000 |
| 15 | 1.190864000 | -1.094727000 | 0.543827000 | 6 | 1.594248000 | -1.990542000 | 3.138292000 |
| 1 | -3.150905000 | -4.806868000 | -3.660103000 | 6 | 3.344189000 | -2.608871000 | 1.633154000 |
| 6 | -3.158874000 | -4.278482000 | -2.699087000 | 6 | 2.245139000 | -2.641365000 | 4.159431000 |
| 6 | 1.064582000 | -1.691861000 | -5.146665000 | 1 | 0.673544000 | -1.475880000 | 3.335575000 |
| 6 | 0.107720000 | 1.416310000 | -3.681843000 | 6 | 4.008926000 | -3.254570000 | 2.664209000 |
| 6 | 0.407598000 | 0.137897000 | -4.082862000 | 6 | 3.458052000 | -3.279592000 | 3.930766000 |
| 6 | 0.072786000 | -0.959606000 | -3.303893000 | 6 | 2.383522000 | -0.875634000 | -0.816185000 |
| | | | | 6 | 2.918403000 | 0.384657000 | -1.075314000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | 2.820804000 | -1.941736000 | -1.589964000 | 1 | 5.028455000 | 2.662637000 | 0.305042000 |
| 6 | 3.867816000 | 0.564033000 | -2.055307000 | 6 | 4.994168000 | 5.286822000 | -1.846454000 |
| 1 | 2.583930000 | 1.229370000 | -0.511320000 | 1 | 3.324133000 | 6.614879000 | -2.143934000 |
| 6 | 3.783402000 | -1.772109000 | -2.569832000 | 1 | 6.474471000 | 3.811910000 | -1.320973000 |
| 1 | 2.399574000 | -2.916135000 | -1.444098000 | 1 | 5.630177000 | 5.787658000 | -2.574068000 |
| 6 | 4.314916000 | -0.515777000 | -2.802693000 | 1 | 3.796247000 | -2.594658000 | 0.664057000 |
| 8 | 1.096521000 | -0.275291000 | -5.183868000 | 1 | -4.561481000 | 4.247218000 | -2.395571000 |
| 8 | 0.567609000 | -2.092294000 | -3.882859000 | 1 | -4.408351000 | 4.331030000 | 1.842986000 |
| 8 | -2.375034000 | -3.102314000 | -2.800264000 | 1 | 4.947825000 | -3.725490000 | 2.462692000 |
| 8 | -2.584112000 | -5.107162000 | -1.701843000 | 1 | 1.840261000 | -2.664583000 | 5.149445000 |
| 1 | -4.184732000 | -4.011039000 | -2.405376000 | 1 | 4.276465000 | 1.529703000 | -2.259579000 |
| 1 | 0.397137000 | -2.066187000 | -5.940387000 | 1 | 4.101867000 | -2.619710000 | -3.139442000 |
| 1 | 2.079635000 | -2.082949000 | -5.281328000 | 1 | -5.831881000 | -1.809322000 | -1.608705000 |
| 8 | -0.871641000 | -0.094518000 | 3.137773000 | 1 | -4.468298000 | -2.651896000 | 2.322448000 |
| 6 | -1.253996000 | 1.015669000 | 3.679266000 | 8 | -5.381766000 | 5.528524000 | -0.393712000 |
| 8 | -2.409706000 | 1.420477000 | 3.772521000 | 8 | -6.266567000 | -3.231896000 | 0.659518000 |
| 6 | -0.099225000 | 1.888684000 | 4.212016000 | 8 | 5.272973000 | -0.246157000 | -3.741061000 |
| 1 | -0.568539000 | 2.820393000 | 4.564683000 | 8 | 4.031589000 | -3.892460000 | 5.010384000 |
| 6 | 0.824461000 | 2.253267000 | 3.075406000 | 6 | -5.875071000 | 6.194307000 | 0.781458000 |
| 6 | 2.217833000 | 2.160931000 | 3.150985000 | 1 | -6.499504000 | 6.993867000 | 0.418446000 |
| 6 | 0.275951000 | 2.814671000 | 1.910436000 | 1 | -6.461525000 | 5.522949000 | 1.395678000 |
| 6 | 3.026121000 | 2.699873000 | 2.160151000 | 1 | -5.064000000 | 6.603846000 | 1.370257000 |
| 1 | 2.683944000 | 1.706389000 | 4.023148000 | 6 | -7.318826000 | -3.471455000 | -0.286257000 |
| 6 | 1.091392000 | 3.336511000 | 0.907676000 | 1 | -6.936189000 | -3.904484000 | -1.202809000 |
| 1 | -0.797719000 | 2.988303000 | 1.853030000 | 1 | -7.983020000 | -4.172408000 | 0.191876000 |
| 6 | 2.484163000 | 3.326631000 | 1.029794000 | 1 | -7.856359000 | -2.560476000 | -0.518374000 |
| 1 | 4.107173000 | 2.677747000 | 2.293743000 | 6 | 5.286966000 | -4.580228000 | 4.889666000 |
| 1 | 0.621232000 | 3.771707000 | 0.025076000 | 1 | 5.499885000 | -4.965945000 | 5.872915000 |
| 6 | 0.582393000 | 1.204962000 | 5.387281000 | 1 | 5.220841000 | -5.399099000 | 4.184113000 |
| 1 | 1.319962000 | 1.861007000 | 5.868147000 | 1 | 6.077413000 | -3.905947000 | 4.584293000 |
| 1 | -0.161312000 | 0.930748000 | 6.145456000 | 6 | 5.791706000 | -1.282220000 | -4.588910000 |
| 1 | 1.092738000 | 0.288410000 | 5.067863000 | 1 | 6.514898000 | -0.799492000 | -5.225118000 |
| 6 | 3.349005000 | 3.988810000 | 0.031250000 | 1 | 6.276442000 | -2.059571000 | -4.011376000 |
| 6 | 2.892298000 | 5.105808000 | -0.679839000 | 1 | 5.010683000 | -1.721702000 | -5.197174000 |
| 6 | 4.654025000 | 3.544010000 | -0.214290000 | | | | |
| 6 | 3.702319000 | 5.745145000 | -1.609037000 | | | | |
| 1 | 1.895898000 | 5.497625000 | -0.479457000 | | | | |
| 6 | 5.466848000 | 4.184151000 | -1.142531000 | | | | |

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| 6 | 2.156639000 | -3.170983000 | 3.651854000 |
| 1 | 2.375439000 | -3.340024000 | 4.711232000 |

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|----|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 1 | 3.065283000 | -3.289523000 | 3.034834000 | 6 | 3.368004000 | 4.722162000 | -0.855117000 |
| 6 | 0.551490000 | 3.054858000 | 3.379945000 | 1 | 3.683854000 | 3.002982000 | 0.342632000 |
| 6 | 0.007830000 | 2.037229000 | 4.122077000 | 6 | 1.412357000 | 4.690140000 | -2.239173000 |
| 6 | -0.138080000 | 0.765884000 | 3.590850000 | 1 | 0.217580000 | 2.937206000 | -2.130427000 |
| 6 | 0.227776000 | 0.416948000 | 2.305927000 | 6 | 2.551877000 | 5.340397000 | -1.790310000 |
| 6 | 0.835048000 | 1.447548000 | 1.533769000 | 6 | 3.018580000 | 0.333721000 | -0.001591000 |
| 6 | 0.961783000 | 2.726122000 | 2.083381000 | 6 | 3.920971000 | 0.379744000 | -1.070617000 |
| 6 | -0.058667000 | -0.993491000 | 1.922249000 | 6 | 3.421060000 | -0.315520000 | 1.150435000 |
| 6 | 0.622298000 | -2.002526000 | 2.573007000 | 6 | 5.153913000 | -0.216660000 | -0.993210000 |
| 6 | 0.346669000 | -3.352784000 | 2.411086000 | 1 | 3.654547000 | 0.907412000 | -1.963063000 |
| 6 | -0.650482000 | -3.781400000 | 1.572993000 | 6 | 4.668162000 | -0.926023000 | 1.235285000 |
| 6 | -1.366244000 | -2.783542000 | 0.901484000 | 1 | 2.784440000 | -0.361118000 | 2.006759000 |
| 6 | -1.124206000 | -1.418602000 | 1.078383000 | 6 | 5.537908000 | -0.882974000 | 0.165883000 |
| 15 | 1.387830000 | 1.161273000 | -0.204682000 | 8 | -0.798813000 | -0.022532000 | 4.496529000 |
| 15 | -1.888117000 | -0.211731000 | -0.046696000 | 8 | 1.642925000 | -1.858671000 | 3.477044000 |
| 1 | 0.644256000 | 4.064817000 | 3.768996000 | 8 | -0.517407000 | 2.071763000 | 5.379842000 |
| 1 | 1.388706000 | 3.514837000 | 1.475021000 | 8 | 1.171137000 | -4.084984000 | 3.217235000 |
| 1 | -0.848361000 | -4.838252000 | 1.413675000 | 29 | -0.291030000 | 0.410850000 | -1.451462000 |
| 1 | -2.142339000 | -3.093318000 | 0.207709000 | 6 | -0.779205000 | 0.715801000 | 5.703432000 |
| 6 | -3.420258000 | -0.938945000 | -0.722770000 | 1 | -1.753408000 | 0.637792000 | 6.197470000 |
| 6 | -4.304153000 | -1.742726000 | -0.020117000 | 1 | 0.022489000 | 0.333921000 | 6.358504000 |
| 6 | -3.793266000 | -0.506897000 | -1.999420000 | 6 | 2.291843000 | -4.273976000 | -0.203513000 |
| 6 | -5.495682000 | -2.163876000 | -0.585253000 | 6 | 2.514359000 | -5.405862000 | 0.571279000 |
| 1 | -4.076007000 | -2.047099000 | 0.982068000 | 6 | 1.725341000 | -6.539881000 | 0.403495000 |
| 6 | -4.980689000 | -0.913925000 | -2.561316000 | 6 | 0.712625000 | -6.533785000 | -0.551377000 |
| 1 | -3.158117000 | 0.175787000 | -2.530422000 | 6 | 0.491541000 | -5.402981000 | -1.328919000 |
| 6 | -5.834988000 | -1.756220000 | -1.863247000 | 6 | 1.276011000 | -4.256143000 | -1.166778000 |
| 6 | -2.589582000 | 1.165709000 | 0.914159000 | 6 | 1.034704000 | -3.047307000 | -1.975952000 |
| 6 | -2.770718000 | 2.365144000 | 0.218924000 | 6 | 2.105175000 | -2.282682000 | -2.462763000 |
| 6 | -3.043061000 | 1.078368000 | 2.216801000 | 6 | 1.879365000 | -1.133349000 | -3.197406000 |
| 6 | -3.380598000 | 3.437850000 | 0.824674000 | 6 | 0.583165000 | -0.664483000 | -3.456938000 |
| 1 | -2.437549000 | 2.446797000 | -0.799921000 | 6 | -0.258790000 | -2.627534000 | -2.282411000 |
| 6 | -3.652734000 | 2.159780000 | 2.831906000 | 6 | -0.487471000 | -1.450324000 | -2.997992000 |
| 1 | -2.899962000 | 0.177453000 | 2.780253000 | 6 | 0.373114000 | 0.506449000 | -4.386623000 |
| 6 | -3.824163000 | 3.342566000 | 2.137089000 | 6 | 0.437754000 | 0.049281000 | -5.839192000 |
| 6 | 1.889023000 | 2.815064000 | -0.801655000 | 1 | 1.900386000 | -7.425087000 | 1.012386000 |
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| 1 | -0.286166000 | -5.412145000 | -2.092620000 |
| 1 | 0.097997000 | -7.420396000 | -0.700952000 |
| 1 | -1.115557000 | -3.203847000 | -1.932741000 |
| 1 | 3.127139000 | -2.604703000 | -2.267673000 |
| 1 | 2.724654000 | -0.574080000 | -3.597984000 |
| 1 | -1.504882000 | -1.200282000 | -3.291878000 |
| 1 | 1.198880000 | 1.218583000 | -4.200193000 |
| 1 | -0.362203000 | -0.675488000 | -6.042361000 |
| 1 | 1.399824000 | -0.429457000 | -6.065460000 |
| 1 | 0.286766000 | 0.901080000 | -6.509380000 |
| 6 | -0.918319000 | 1.306354000 | -4.104542000 |
| 8 | -1.577061000 | 1.746070000 | -5.032561000 |
| 8 | -1.189388000 | 1.487228000 | -2.845014000 |
| 1 | -3.527593000 | 4.361107000 | 0.305397000 |
| 1 | -3.983648000 | 2.065732000 | 3.844648000 |
| 1 | 5.847786000 | -0.175672000 | -1.806373000 |
| 1 | 4.945002000 | -1.407605000 | 2.149543000 |
| 1 | 4.258688000 | 5.198627000 | -0.503778000 |
| 1 | 0.802746000 | 5.176526000 | -2.971001000 |
| 1 | -6.149048000 | -2.792021000 | -0.017359000 |
| 1 | -5.274434000 | -0.585068000 | -3.535672000 |
| 8 | -6.984681000 | -2.120832000 | -2.507286000 |
| 8 | -4.412871000 | 4.463860000 | 2.657874000 |
| 8 | 2.796895000 | 6.572610000 | -2.324613000 |
| 8 | 6.784380000 | -1.445298000 | 0.152074000 |
| 6 | -7.967151000 | -2.945272000 | -1.860714000 |
| 1 | -8.350748000 | -2.471819000 | -0.965520000 |
| 1 | -8.762470000 | -3.061291000 | -2.578182000 |
| 1 | -7.561362000 | -3.917110000 | -1.607921000 |
| 6 | -4.902120000 | 4.480476000 | 4.007475000 |
| 1 | -5.306482000 | 5.468291000 | 4.155585000 |
| 1 | -5.682405000 | 3.743545000 | 4.153029000 |
| 1 | -4.104033000 | 4.303747000 | 4.718053000 |
| 6 | 3.953194000 | 7.335034000 | -1.941200000 |
| 1 | 3.894797000 | 8.249144000 | -2.508173000 |
| 1 | 3.941272000 | 7.562068000 | -0.882481000 |
| 1 | 4.868704000 | 6.811821000 | -2.187311000 |
| 6 | 7.297981000 | -2.132982000 | 1.304032000 |

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| 1 | 6.684729000 | -2.989313000 | 1.556524000 |
| 1 | 8.284414000 | -2.464766000 | 1.025776000 |
| 1 | 7.363394000 | -1.472446000 | 2.159619000 |

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|----|--------------|--------------|--------------|
| 6 | 2.537173000 | -0.657854000 | -3.557437000 |
| 1 | 2.214393000 | -0.106055000 | -4.456314000 |
| 1 | 2.973354000 | -1.624707000 | -3.830645000 |
| 6 | -3.239670000 | -1.568676000 | -0.868369000 |
| 6 | -2.817247000 | -0.642648000 | -1.790158000 |
| 6 | -1.559380000 | -0.060205000 | -1.706685000 |
| 6 | -0.654995000 | -0.349583000 | -0.706021000 |
| 6 | -1.058038000 | -1.333979000 | 0.237710000 |
| 6 | -2.328676000 | -1.904249000 | 0.143684000 |
| 6 | 0.654995000 | 0.349583000 | -0.706021000 |
| 6 | 1.559380000 | 0.060205000 | -1.706685000 |
| 6 | 2.817247000 | 0.642648000 | -1.790158000 |
| 6 | 3.239670000 | 1.568676000 | -0.868369000 |
| 6 | 2.328676000 | 1.904249000 | 0.143684000 |
| 6 | 1.058038000 | 1.333979000 | 0.237710000 |
| 15 | 0.000000000 | -1.690263000 | 1.693086000 |
| 15 | 0.000000000 | 1.690263000 | 1.693086000 |
| 1 | -4.227731000 | -2.017495000 | -0.922571000 |
| 1 | -2.638008000 | -2.645983000 | 0.876515000 |
| 1 | 4.227731000 | 2.017495000 | -0.922571000 |
| 1 | 2.638008000 | 2.645983000 | 0.876515000 |
| 8 | -1.424496000 | 0.864390000 | -2.703235000 |
| 8 | 1.424496000 | -0.864390000 | -2.703235000 |
| 8 | -3.494983000 | -0.111781000 | -2.848568000 |
| 8 | 3.494983000 | 0.111781000 | -2.848568000 |
| 29 | 0.000000000 | 0.000000000 | 3.077937000 |
| 6 | -2.537173000 | 0.657854000 | -3.557437000 |
| 1 | -2.973354000 | 1.624707000 | -3.830645000 |
| 1 | -2.214393000 | 0.106055000 | -4.456314000 |
| 1 | 0.000000000 | 0.000000000 | 4.625445000 |
| 6 | 0.643023000 | 3.292457000 | 2.307439000 |
| 1 | 0.725342000 | 4.065304000 | 1.530912000 |
| 1 | -0.054930000 | 3.630795000 | 3.083266000 |

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| 1 | 1.613454000 | 3.150275000 | 2.795790000 | 8 | -5.678728000 | 1.668842000 | -2.066390000 |
| 6 | -1.622563000 | 2.209340000 | 0.999718000 | 8 | -0.743912000 | 3.711060000 | 2.523918000 |
| 1 | -2.144261000 | 2.777908000 | 1.779770000 | 29 | -0.478584000 | -2.453174000 | -0.153787000 |
| 1 | -1.513478000 | 2.838438000 | 0.106095000 | 6 | -5.909764000 | 1.920198000 | -0.689701000 |
| 1 | -2.236022000 | 1.335718000 | 0.753215000 | 1 | -6.590543000 | 1.151300000 | -0.285084000 |
| 6 | 1.622563000 | -2.209340000 | 0.999718000 | 1 | -6.336471000 | 2.921233000 | -0.566333000 |
| 1 | 1.513478000 | -2.838438000 | 0.106095000 | 6 | 6.502476000 | 1.004440000 | 0.721719000 |
| 1 | 2.236022000 | -1.335718000 | 0.753215000 | 6 | 7.555826000 | 1.858731000 | 0.422488000 |
| 1 | 2.144261000 | -2.777908000 | 1.779770000 | 6 | 7.755804000 | 2.297521000 | -0.882767000 |
| 6 | -0.643023000 | -3.292457000 | 2.307439000 | 6 | 6.887341000 | 1.873338000 | -1.883833000 |
| 1 | -0.725342000 | -4.065304000 | 1.530912000 | 6 | 5.830744000 | 1.024214000 | -1.581623000 |
| 1 | 0.054930000 | -3.630795000 | 3.083266000 | 6 | 5.616980000 | 0.570112000 | -0.273434000 |
| 1 | -1.613454000 | -3.150275000 | 2.795790000 | 6 | 4.496494000 | -0.331153000 | 0.045168000 |

L4-TS1_{si}

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | -0.880441000 | 4.229060000 | 1.210586000 | 6 | 3.823161000 | -0.258752000 | 1.273589000 |
| 1 | -1.393066000 | 5.195492000 | 1.249061000 | 6 | 2.761786000 | -1.095578000 | 1.566198000 |
| 1 | 0.117618000 | 4.329075000 | 0.749646000 | 6 | 2.305839000 | -2.067056000 | 0.654592000 |
| 6 | -3.807719000 | 0.500792000 | -3.185314000 | 6 | 4.055310000 | -1.302567000 | -0.863909000 |
| 6 | -4.439355000 | 1.100915000 | -2.123350000 | 6 | 2.996241000 | -2.147493000 | -0.570914000 |
| 6 | -3.821671000 | 1.216706000 | -0.885618000 | 6 | 1.158173000 | -2.892654000 | 0.986762000 |
| 6 | -2.557382000 | 0.732853000 | -0.622713000 | 6 | 0.729659000 | -4.015722000 | 0.207461000 |
| 6 | -1.877051000 | 0.128079000 | -1.714057000 | 1 | 8.582954000 | 2.965026000 | -1.118352000 |
| 6 | -2.511712000 | 0.018616000 | -2.951821000 | 1 | 8.233699000 | 2.175004000 | 1.214257000 |
| 6 | -1.999303000 | 0.890532000 | 0.744149000 | 1 | 6.376067000 | 0.640521000 | 1.741136000 |
| 6 | -1.599426000 | 2.141882000 | 1.163642000 | 1 | 5.137545000 | 0.724653000 | -2.367805000 |
| 6 | -1.039859000 | 2.383850000 | 2.411210000 | 1 | 7.026983000 | 2.215704000 | -2.908437000 |
| 6 | -0.866932000 | 1.374641000 | 3.327070000 | 1 | 4.579950000 | -1.420340000 | -1.813210000 |
| 6 | -1.286181000 | 0.095545000 | 2.935159000 | 1 | 4.119561000 | 0.499232000 | 1.999546000 |
| 6 | -1.850994000 | -0.162838000 | 1.685413000 | 1 | 2.236693000 | -0.989595000 | 2.517870000 |
| 15 | -0.235873000 | -0.649197000 | -1.435916000 | 1 | 2.699596000 | -2.894305000 | -1.309217000 |
| 15 | -2.172027000 | -1.892164000 | 1.165526000 | 1 | 0.856119000 | -2.868600000 | 2.036467000 |
| 1 | -4.288323000 | 0.406239000 | -4.155255000 | 1 | 1.388165000 | -4.382596000 | -0.580002000 |
| 1 | -1.993989000 | -0.463346000 | -3.778077000 | 1 | -0.526913000 | -3.828337000 | -0.920761000 |
| 1 | -0.426586000 | 1.559992000 | 4.302985000 | 1 | 0.231256000 | -4.825431000 | 0.740132000 |
| 1 | -1.150294000 | -0.720921000 | 3.641581000 | 6 | 0.827524000 | 0.741905000 | -0.863335000 |
| 8 | -4.664187000 | 1.846938000 | -0.015810000 | 1 | 0.577018000 | 1.681075000 | -1.374870000 |
| 8 | -1.654759000 | 3.308826000 | 0.458339000 | 1 | 0.729267000 | 0.874886000 | 0.219931000 |
| | | | | 1 | 1.874153000 | 0.478564000 | -1.066890000 |
| | | | | 6 | 0.421193000 | -0.902723000 | -3.129244000 |

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|---|--------------|--------------|--------------|----|--------------|--------------|--------------|
| 1 | -0.105181000 | -1.727819000 | -3.622257000 | 29 | 0.409844000 | -2.447494000 | -0.100877000 |
| 1 | 0.375742000 | 0.000560000 | -3.752454000 | 6 | 5.014854000 | 2.801231000 | -1.998493000 |
| 1 | 1.470733000 | -1.201955000 | -3.011765000 | 1 | 4.914501000 | 3.229765000 | -3.001360000 |
| 6 | -2.337942000 | -2.803017000 | 2.752617000 | 1 | 5.491837000 | 3.519592000 | -1.311058000 |
| 1 | -2.706050000 | -3.807532000 | 2.508764000 | 6 | -6.918970000 | 0.003315000 | -0.718082000 |
| 1 | -1.363004000 | -2.921826000 | 3.239049000 | 6 | -7.984740000 | 0.831858000 | -1.044886000 |
| 1 | -3.038393000 | -2.326176000 | 3.451159000 | 6 | -7.898257000 | 2.204689000 | -0.834466000 |
| 6 | -3.925652000 | -1.903179000 | 0.599223000 | 6 | -6.731298000 | 2.739340000 | -0.297138000 |
| 1 | -4.573994000 | -1.263581000 | 1.214091000 | 6 | -5.664447000 | 1.910021000 | 0.023175000 |
| 1 | -3.987666000 | -1.586383000 | -0.447257000 | 6 | -5.736889000 | 0.525112000 | -0.177257000 |
| 1 | -4.281534000 | -2.939874000 | 0.655079000 | 6 | -4.602079000 | -0.348388000 | 0.166119000 |

L4-TS1_{re}

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|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | 2.106955000 | 3.547941000 | 2.669796000 | 6 | -2.358062000 | -2.004489000 | 0.799729000 |
| 1 | 2.649697000 | 4.496468000 | 2.734634000 | 6 | -4.287065000 | -1.480521000 | -0.597111000 |
| 1 | 2.132877000 | 3.012884000 | 3.636038000 | 6 | -3.198011000 | -2.283650000 | -0.295142000 |
| 6 | 5.532944000 | -0.550999000 | -0.910777000 | 6 | -1.178379000 | -2.781999000 | 1.136949000 |
| 6 | 5.137968000 | 0.708344000 | -1.292287000 | 6 | -0.767643000 | -3.977190000 | 0.462694000 |
| 6 | 3.893408000 | 1.214741000 | -0.942023000 | 1 | -8.734621000 | 2.853846000 | -1.087980000 |
| 6 | 2.966942000 | 0.505591000 | -0.207006000 | 1 | -8.895770000 | 0.399753000 | -1.456810000 |
| 6 | 3.370342000 | -0.786402000 | 0.226434000 | 1 | -7.009550000 | -1.073936000 | -0.856206000 |
| 6 | 4.621865000 | -1.284700000 | -0.137718000 | 1 | -4.741569000 | 2.342036000 | 0.412515000 |
| 6 | 1.658272000 | 1.135623000 | 0.101958000 | 1 | -6.646427000 | 3.813338000 | -0.136511000 |
| 6 | 1.629219000 | 2.179689000 | 1.004403000 | 1 | -4.892250000 | -1.715969000 | -1.473730000 |
| 6 | 0.460632000 | 2.818476000 | 1.395485000 | 1 | -4.014216000 | 0.772345000 | 1.914127000 |
| 6 | -0.760024000 | 2.457686000 | 0.877845000 | 1 | -2.069404000 | -0.632837000 | 2.436434000 |
| 6 | -0.758395000 | 1.419650000 | -0.062718000 | 1 | -2.978444000 | -3.135661000 | -0.939866000 |
| 6 | 0.408118000 | 0.763786000 | -0.463160000 | 1 | -0.816445000 | -2.646452000 | 2.158849000 |
| 15 | 2.171322000 | -1.840854000 | 1.124890000 | 1 | -1.439990000 | -4.420460000 | -0.271932000 |
| 15 | 0.253147000 | -0.737031000 | -1.507153000 | 1 | -0.253806000 | -4.730862000 | 1.059509000 |
| 1 | 6.501502000 | -0.954656000 | -1.192885000 | 1 | 0.476379000 | -3.908981000 | -0.688647000 |
| 1 | 4.918333000 | -2.280028000 | 0.185589000 | 6 | -1.246383000 | -0.412501000 | -2.511898000 |
| 1 | -1.681707000 | 2.945908000 | 1.185005000 | 1 | -1.306746000 | -1.209384000 | -3.264093000 |
| 1 | -1.719763000 | 1.105762000 | -0.465173000 | 1 | -2.155118000 | -0.473040000 | -1.903049000 |
| 8 | 3.734491000 | 2.449087000 | -1.502980000 | 1 | -1.199799000 | 0.560115000 | -3.019268000 |
| 8 | 2.689941000 | 2.732481000 | 1.667221000 | 6 | 1.540756000 | -0.567436000 | -2.812734000 |
| 8 | 5.797709000 | 1.618509000 | -2.063995000 | 1 | 1.241029000 | -1.217718000 | -3.644489000 |
| 8 | 0.760702000 | 3.794432000 | 2.303292000 | 1 | 1.630502000 | 0.465524000 | -3.176506000 |

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|---|-------------|--------------|--------------|
| 1 | 2.515186000 | -0.913826000 | -2.453210000 |
| 6 | 1.815862000 | -0.894018000 | 2.667388000 |
| 1 | 2.710505000 | -0.403638000 | 3.074808000 |
| 1 | 1.041122000 | -0.141799000 | 2.475588000 |
| 1 | 1.422157000 | -1.599301000 | 3.411190000 |
| 6 | 3.191952000 | -3.208582000 | 1.799223000 |
| 1 | 3.515500000 | -3.871835000 | 0.989126000 |
| 1 | 4.062627000 | -2.868342000 | 2.376034000 |
| 1 | 2.536814000 | -3.795429000 | 2.456749000 |

L4-(S)-IM1

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|----|--------------|--------------|--------------|
| 29 | 0.232025000 | -2.185946000 | 0.412891000 |
| 15 | -1.049762000 | -1.234592000 | 1.924567000 |
| 15 | -0.225040000 | -1.011687000 | -1.408935000 |
| 1 | -6.052777000 | 2.360978000 | -0.723516000 |
| 6 | -5.891002000 | 1.416794000 | -0.177091000 |
| 6 | -1.330382000 | 4.493091000 | -0.593676000 |
| 6 | -0.094579000 | 2.765779000 | 2.256050000 |
| 6 | -0.727284000 | 3.284618000 | 1.152689000 |
| 6 | -1.497951000 | 2.486715000 | 0.318005000 |
| 6 | -1.671315000 | 1.131763000 | 0.512382000 |
| 6 | -1.045403000 | 0.579966000 | 1.663008000 |
| 6 | -0.272622000 | 1.395875000 | 2.491405000 |
| 6 | -2.498751000 | 0.375154000 | -0.461277000 |
| 6 | -3.860520000 | 0.594651000 | -0.479046000 |
| 6 | -4.729285000 | -0.063866000 | -1.338557000 |
| 6 | -4.272814000 | -0.986721000 | -2.247830000 |
| 6 | -2.888771000 | -1.210129000 | -2.270770000 |
| 6 | -2.001113000 | -0.550515000 | -1.419086000 |
| 1 | 0.513242000 | 3.386052000 | 2.908933000 |
| 1 | 0.227063000 | 0.961847000 | 3.355120000 |
| 1 | -4.949822000 | -1.514190000 | -2.914218000 |
| 1 | -2.504772000 | -1.927985000 | -2.991947000 |
| 8 | -0.747716000 | 4.570256000 | 0.696373000 |
| 8 | -2.009174000 | 3.250995000 | -0.691587000 |
| 8 | -4.578896000 | 1.398543000 | 0.359357000 |
| 8 | -6.010073000 | 0.324161000 | -1.075260000 |
| 1 | -6.619527000 | 1.305897000 | 0.633082000 |

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| 1 | -2.044301000 | 5.313060000 | -0.723132000 |
| 1 | -0.536621000 | 4.537193000 | -1.359338000 |
| 6 | 1.353995000 | -3.850179000 | 0.580390000 |
| 1 | 1.296565000 | -4.171602000 | 1.627184000 |
| 6 | 2.283877000 | -2.762694000 | 0.375313000 |
| 6 | 3.008162000 | -2.537043000 | -0.833455000 |
| 6 | 2.432997000 | -1.747397000 | 1.370487000 |
| 6 | 3.738962000 | -1.386139000 | -1.040001000 |
| 1 | 2.998567000 | -3.309277000 | -1.603050000 |
| 6 | 3.172834000 | -0.594796000 | 1.141801000 |
| 1 | 2.022519000 | -1.930785000 | 2.365873000 |
| 6 | 3.827745000 | -0.364238000 | -0.072688000 |
| 1 | 4.301495000 | -1.282275000 | -1.969706000 |
| 1 | 3.223039000 | 0.158828000 | 1.929245000 |
| 6 | 1.336982000 | -4.990928000 | -0.401501000 |
| 1 | 2.284877000 | -5.560663000 | -0.428951000 |
| 1 | 0.538678000 | -5.702812000 | -0.157576000 |
| 1 | 1.143627000 | -4.651132000 | -1.430738000 |
| 6 | 4.574593000 | 0.876210000 | -0.328518000 |
| 6 | 5.205522000 | 1.577643000 | 0.709798000 |
| 6 | 4.678175000 | 1.407962000 | -1.622566000 |
| 6 | 5.898106000 | 2.756087000 | 0.467807000 |
| 1 | 5.176239000 | 1.171701000 | 1.720635000 |
| 6 | 5.377612000 | 2.582621000 | -1.867682000 |
| 1 | 4.183408000 | 0.899114000 | -2.450298000 |
| 6 | 5.990167000 | 3.267785000 | -0.823403000 |
| 1 | 6.383439000 | 3.273137000 | 1.294799000 |
| 1 | 5.435921000 | 2.971172000 | -2.883813000 |
| 1 | 6.536856000 | 4.189739000 | -1.013843000 |
| 6 | -0.667772000 | -1.418964000 | 3.711059000 |
| 1 | -1.324154000 | -0.815693000 | 4.352254000 |
| 1 | -0.801609000 | -2.480161000 | 3.956353000 |
| 1 | 0.376639000 | -1.164645000 | 3.923375000 |
| 6 | -2.825758000 | -1.717504000 | 1.923028000 |
| 1 | -2.904713000 | -2.675915000 | 2.451673000 |
| 1 | -3.460317000 | -0.972181000 | 2.421438000 |
| 1 | -3.182790000 | -1.870052000 | 0.898549000 |
| 6 | 0.676907000 | 0.574403000 | -1.652992000 |

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|---|--------------|--------------|--------------|---|-------------|--------------|--------------|
| 1 | 0.189865000 | 1.218218000 | -2.397951000 | 6 | 1.384059000 | -3.907906000 | 0.158738000 |
| 1 | 0.776419000 | 1.113284000 | -0.704030000 | 1 | 1.434719000 | -4.514148000 | -0.752697000 |
| 1 | 1.691314000 | 0.321127000 | -1.988037000 | 6 | 1.289988000 | -4.750366000 | 1.410290000 |
| 6 | 0.033901000 | -1.800422000 | -3.044997000 | 1 | 0.425676000 | -5.426135000 | 1.364564000 |
| 1 | -0.449498000 | -2.783221000 | -3.079840000 | 1 | 2.184871000 | -5.377496000 | 1.574168000 |
| 1 | -0.314757000 | -1.183582000 | -3.884147000 | 1 | 1.160401000 | -4.147238000 | 2.320948000 |
| 1 | 1.114777000 | -1.963685000 | -3.142293000 | 6 | 2.306813000 | -2.789454000 | 0.105761000 |

L4-(R)-IM1

| | | | | | | | |
|----|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 6 | -5.899926000 | 1.107245000 | 0.064133000 | 6 | 2.467035000 | -1.881877000 | 1.194445000 |
| 1 | -6.466620000 | 2.044053000 | 0.025177000 | 6 | 2.997006000 | -2.429551000 | -1.090028000 |
| 1 | -6.311332000 | 0.434327000 | 0.835702000 | 6 | 3.179445000 | -0.694526000 | 1.058996000 |
| 6 | -0.028980000 | 2.475927000 | 2.441165000 | 1 | 2.086303000 | -2.157986000 | 2.178077000 |
| 6 | -0.676587000 | 3.123994000 | 1.416940000 | 6 | 3.710992000 | -1.258671000 | -1.202705000 |
| 6 | -1.455747000 | 2.430800000 | 0.500570000 | 1 | 2.927401000 | -3.109668000 | -1.942031000 |
| 6 | -1.632388000 | 1.062766000 | 0.536400000 | 6 | 3.801540000 | -0.336061000 | -0.138131000 |
| 6 | -1.006161000 | 0.379129000 | 1.613797000 | 1 | 3.277973000 | -0.038936000 | 1.925904000 |
| 6 | -0.215996000 | 1.088991000 | 2.520218000 | 1 | 4.194619000 | -1.020973000 | -2.152398000 |
| 6 | -2.454171000 | 0.421681000 | -0.521650000 | 6 | 4.497170000 | 0.949593000 | -0.292670000 |
| 6 | -3.817058000 | 0.636346000 | -0.526070000 | 6 | 5.638087000 | 1.071349000 | -1.098434000 |
| 6 | -4.674349000 | 0.073734000 | -1.461469000 | 6 | 4.028953000 | 2.103180000 | 0.353604000 |
| 6 | -4.205714000 | -0.733448000 | -2.469119000 | 6 | 6.284669000 | 2.291002000 | -1.248602000 |
| 6 | -2.821257000 | -0.953158000 | -2.501222000 | 1 | 6.038600000 | 0.184637000 | -1.589723000 |
| 6 | -1.945384000 | -0.393889000 | -1.569603000 | 6 | 4.679234000 | 3.321861000 | 0.209342000 |
| 15 | -1.037863000 | -1.453379000 | 1.690432000 | 1 | 3.122181000 | 2.041994000 | 0.957058000 |
| 15 | -0.170674000 | -0.860786000 | -1.582811000 | 6 | 5.811063000 | 3.424308000 | -0.593823000 |
| 1 | 0.593126000 | 3.012464000 | 3.152529000 | 1 | 7.174489000 | 2.354623000 | -1.873785000 |
| 1 | 0.282221000 | 0.556416000 | 3.327865000 | 1 | 4.290177000 | 4.202882000 | 0.718545000 |
| 1 | -4.874149000 | -1.176916000 | -3.202031000 | 1 | 6.319425000 | 4.380033000 | -0.709920000 |
| 1 | -2.427855000 | -1.590909000 | -3.289631000 | 6 | -0.707545000 | -1.811867000 | 3.462429000 |
| 8 | -1.920342000 | 3.298853000 | -0.444535000 | 1 | -0.891688000 | -2.883249000 | 3.612076000 |
| 8 | -4.540296000 | 1.385234000 | 0.357631000 | 1 | 0.339769000 | -1.621401000 | 3.721849000 |
| 8 | -0.649769000 | 4.445758000 | 1.084105000 | 1 | -1.357192000 | -1.238452000 | 4.137095000 |
| 8 | -5.954252000 | 0.467156000 | -1.200045000 | 6 | -2.819803000 | -1.912037000 | 1.613638000 |
| 29 | 0.249069000 | -2.252131000 | 0.091140000 | 1 | -2.915844000 | -2.913822000 | 2.051277000 |
| 6 | -1.603215000 | 4.592195000 | 0.042983000 | 1 | -3.455141000 | -1.209794000 | 2.170895000 |
| 1 | -1.172903000 | 5.192745000 | -0.765871000 | 1 | -3.161690000 | -1.967870000 | 0.574843000 |
| 1 | -2.513587000 | 5.068922000 | 0.442637000 | 6 | 0.729618000 | 0.742694000 | -1.639333000 |
| | | | | 1 | 0.254171000 | 1.459310000 | -2.322150000 |
| | | | | 1 | 0.797224000 | 1.179025000 | -0.636728000 |

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|---|--------------|--------------|--------------|---|--------------|--------------|--------------|
| 1 | 1.755114000 | 0.537250000 | -1.972397000 | 1 | -0.243768000 | -0.778561000 | -4.063331000 |
| 6 | 0.110955000 | -1.472031000 | -3.289153000 | 1 | 1.194992000 | -1.603413000 | -3.396051000 |
| 1 | -0.353454000 | -2.455171000 | -3.425688000 | | | | |