Electronic Supplementary Information (ESI)

for

Interconversion between ladder-type octanuclear and linear tetranuclear copper(I) complexes supported by tetraphosphine ligands

Yukie Takemura, Takayuki Nakajima, and Tomoaki Tanase*

Department of Chemistry, Faculty of Science, Nara Women's University, Kitauoya-higashi-machi, Nara 630-8506, Japan

E-mail: tanase@cc.nara-wu.ac.jp

Fig. S1. ORTEP for complex $[Cu_8(\mu\text{-}I)_2(\mu_3\text{-}I)_6(\mu\text{-}dpmppm)_2]$ (**1c**).

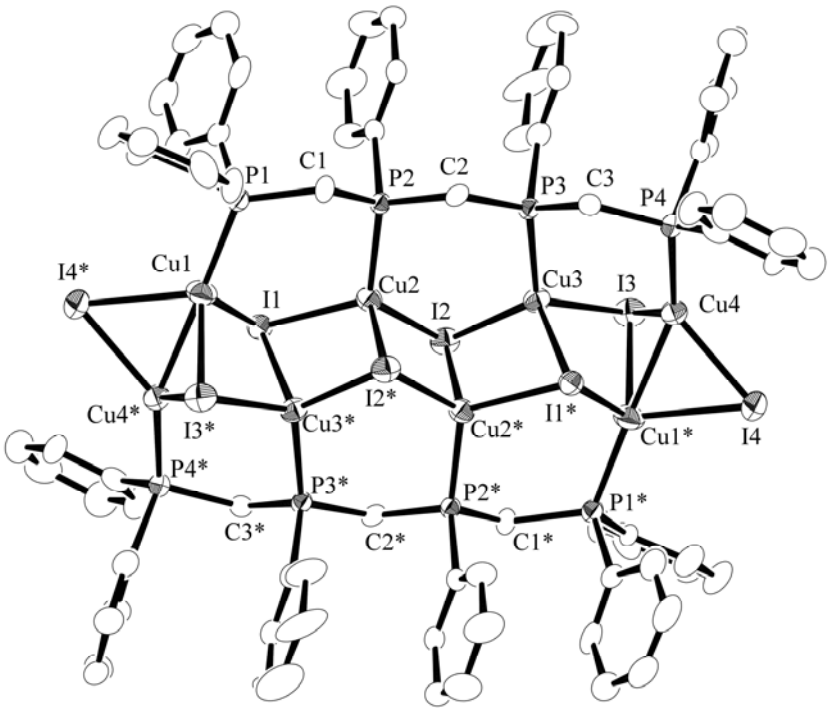

Fig. S2 $^{31}P\{^{1}H\}$ NMR spectra of (a) **1a**, (b) **1b** and (c) **2** in dmso-d_6 and (d) **7b** and (e) **8c** in dmf-d_7 at room temperature.

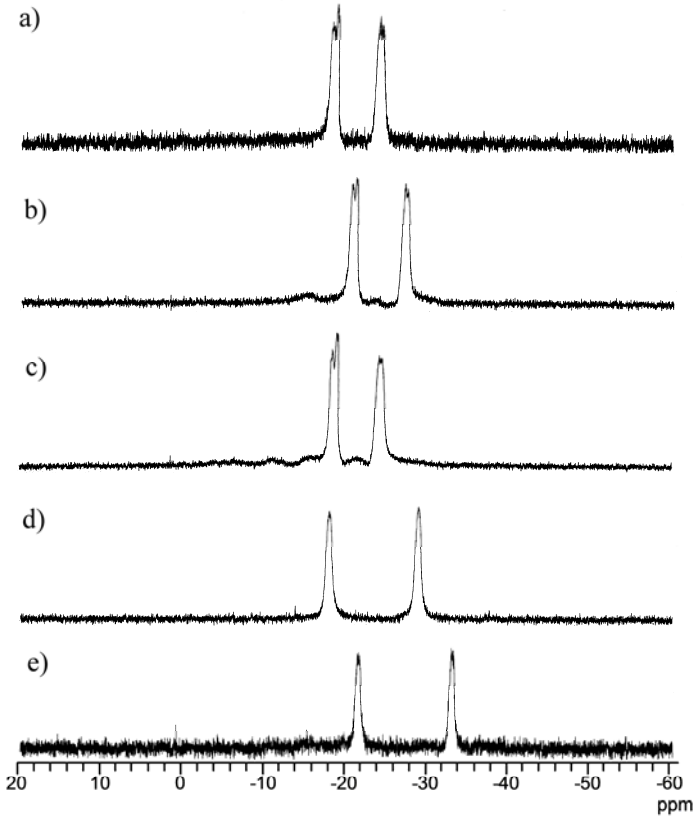

Fig. S3. ORTEP for the complex cation of $[Cu_4(\mu\text{-}I)_3(\mu\text{-}dpmppm)_2(py)_2]I$ (**5**).

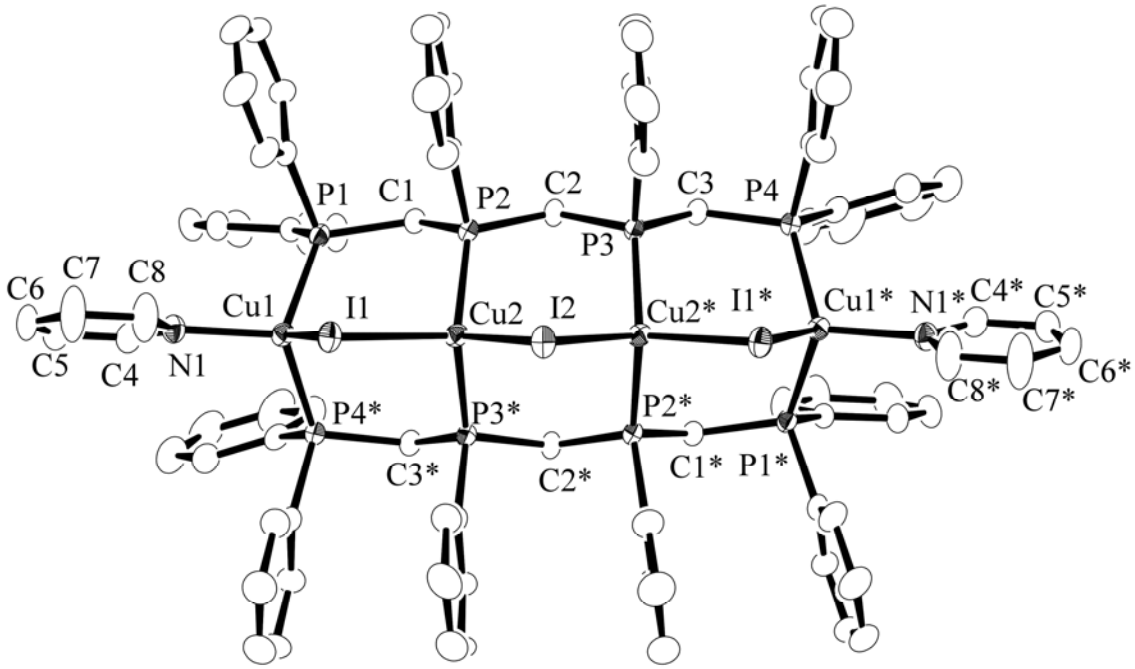

Fig. S4. ORTEP for the complex cation of $[Cu_4(\mu\text{-}I)_3(\mu\text{-}dpmppm)_2(MesNC)_2]PF_6$ (**8b**).

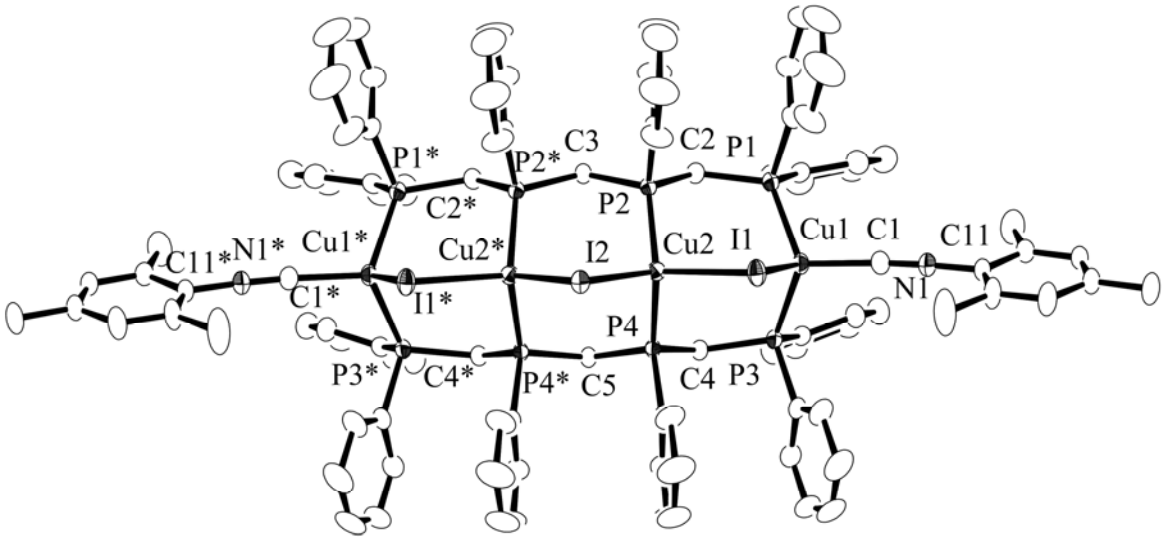

Fig. S5. ORTEP for the complex cation of $[Cu_8(\mu\text{-}I)_6(\mu\text{-dpmppm})_2(^t\text{BuNC})_2](PF_6)_2$ (**9**). The terminal isocyanide ligand is disordered in two sites (0.64 and 0.36 occupancies). The thermal ellipsoids of the Cu, I, and P atoms are drawn at the 40% probability level and the N and C atoms are drawn with arbitrary circles for clarity.