

Supplementary Information

for

Factors affecting the magnetic coupling in $\text{Sr}_2\text{V}_3\text{O}_9$ type oxides: As for V substitution in the VO_4 tetrahedra and nature of the cation

by

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$\text{Sr}_2\text{V}_3\text{O}_9$



$\text{Pb}_2\text{As}_2\text{VO}_9$

Figure S1. Natural magnetic orbitals for the molecular models of $\text{Sr}_2\text{V}_3\text{O}_9$ (top) and $\text{Pb}_2\text{As}_2\text{VO}_9$ (bottom).