

Supporting Information to the paper

A diabolo-shaped Dy₉ cluster: synthesis, crystal structure and magnetic properties

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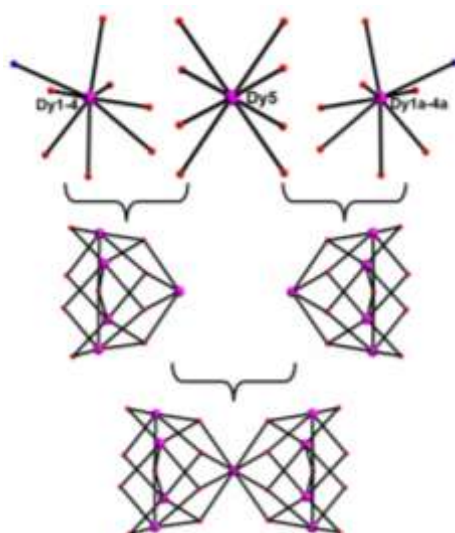


Fig. S1 Coordination environments of the two types of Dy^{III} ions, i.e. Dy1-4, and Dy5 and representation of the formation of diabolo-shaped molecule by coupling two square pyramidal pentanuclear units via the apical metal center (Dy5).

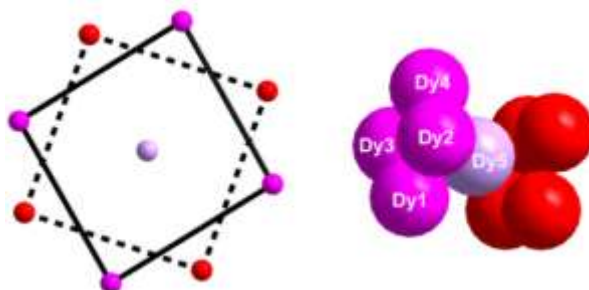


Fig. S2 Representation of the square antiprism formed by the nine dysprosium ions (left) and illustration of the nonanuclear Dy^{III} cluster in space-filling mode (right).

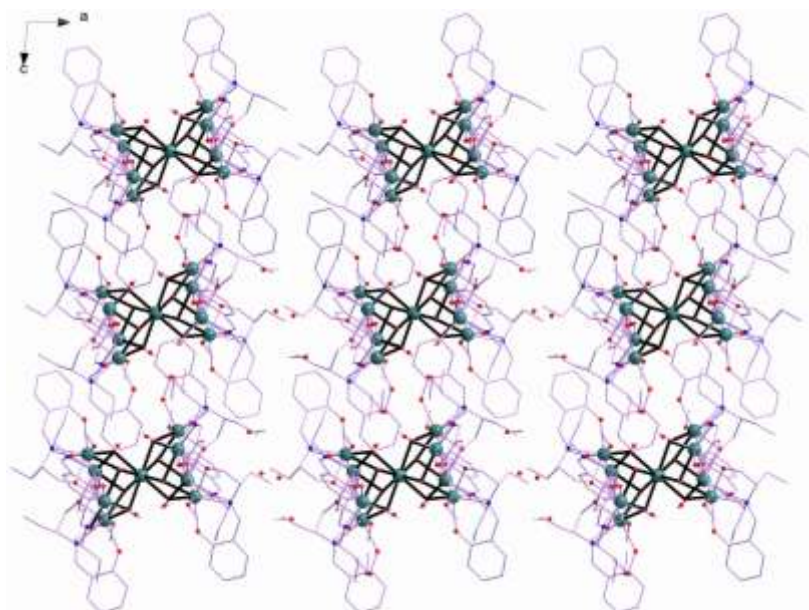


Fig. S3 Crystal packing of compound Dy_9 along the b axis.