

Supporting Information

Two-dimensional Co-Ln networks bridged by phenyl pyrimidyl substituted nitronyl nitroxide: structure and magnetic properties

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Table S1 Lanthanide geometry analysis using the Shape software for complex **2**

Complex2	TDD-8	SAPR-8	BTPR-8	JBTPR-8
	0.213	1.690	2.156	2.700

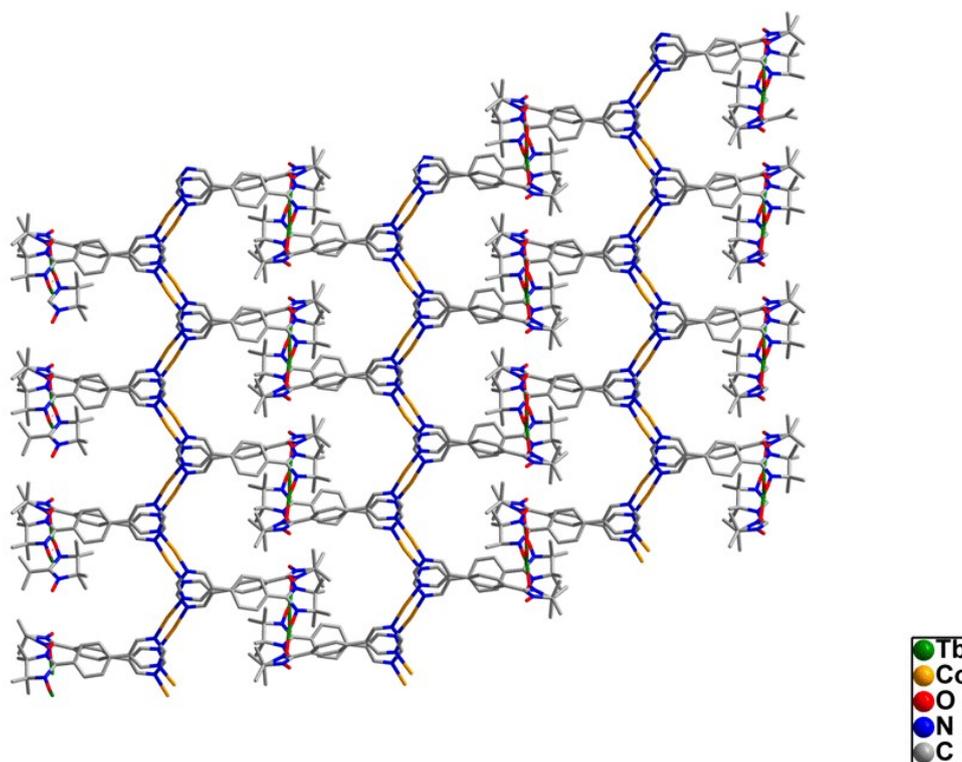


Figure S1. Crystal packing arrangement for complex **2**.

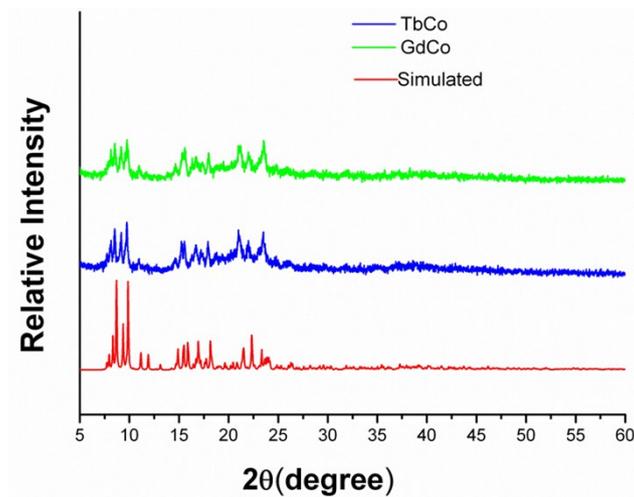


Fig.S2 PXR D patterns for complexes **1** and **2**.

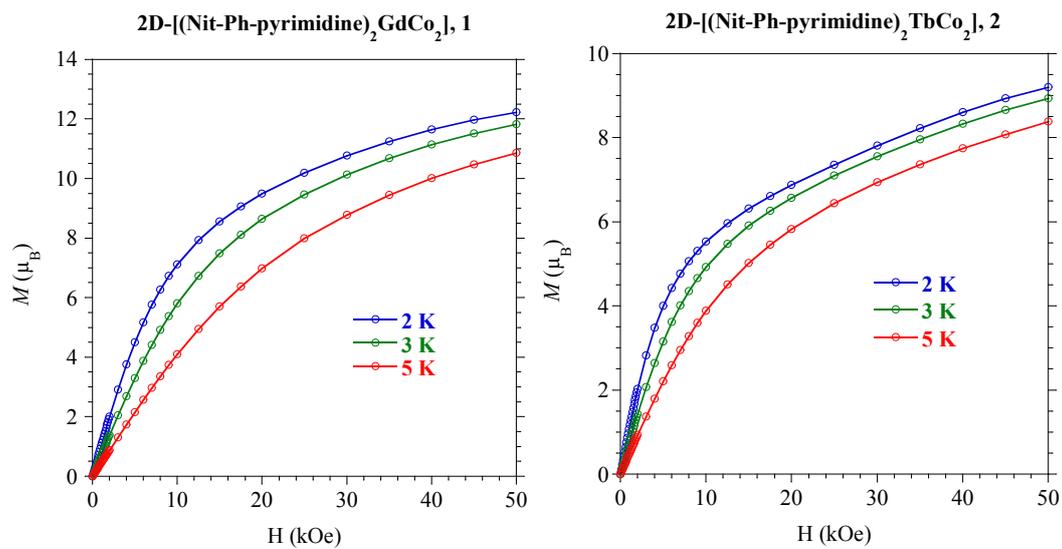


Fig.S3 Plots of M versus H at 2, 3 and 5K for **1** and **2**.

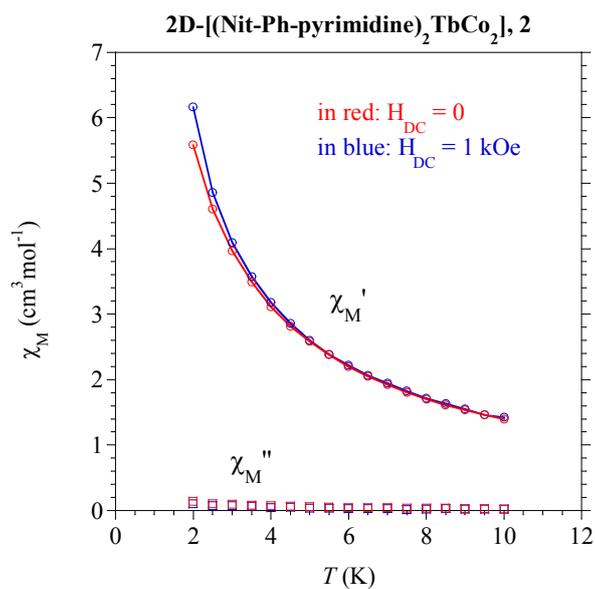


Fig. S4. Temperature dependence of the in-phase (χ_M') and out-of-phase (χ_M'') components of the ac magnetic susceptibility for **2** in zero and 1k Oe dc fields, with an ac field of 3 Oe (Frq = 1 kHz).

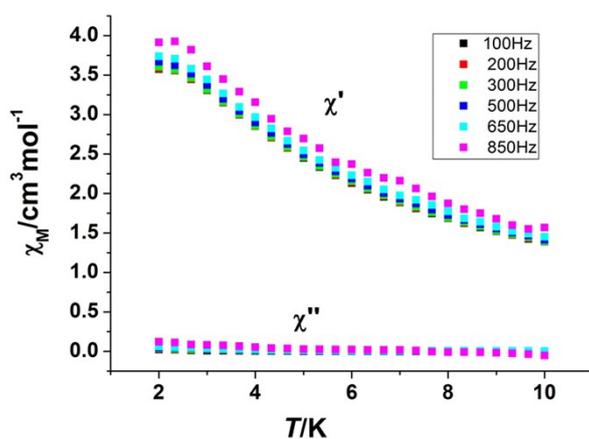


Fig. S5. Temperature dependence of the in-phase and out-of-phase components of the ac magnetic susceptibility for **2** in 3k Oe dc field with an oscillation of 3 Oe.