

Supporting Information

for

5

Slow Magnetic Relaxation in Tris(diphosphanylamido) and Tetra(phosphanoamido) Dysprosium Complexes

Franziska Völcker,^a Yanhua Lan,^{*a} Annie K. Powell,^{*a,b} and Peter W. Roesky^{*a}

10

^aInstitut für Anorganische Chemie, Karlsruher Institut für Technologie (KIT), Engesserstr. 15, 76137
Karlsruhe, Germany;

^bInstitut für Nanotechnologie, Karlsruher Institut für Technologie (KIT), Postfach 3640, D-76021
Karlsruhe, Germany.

15

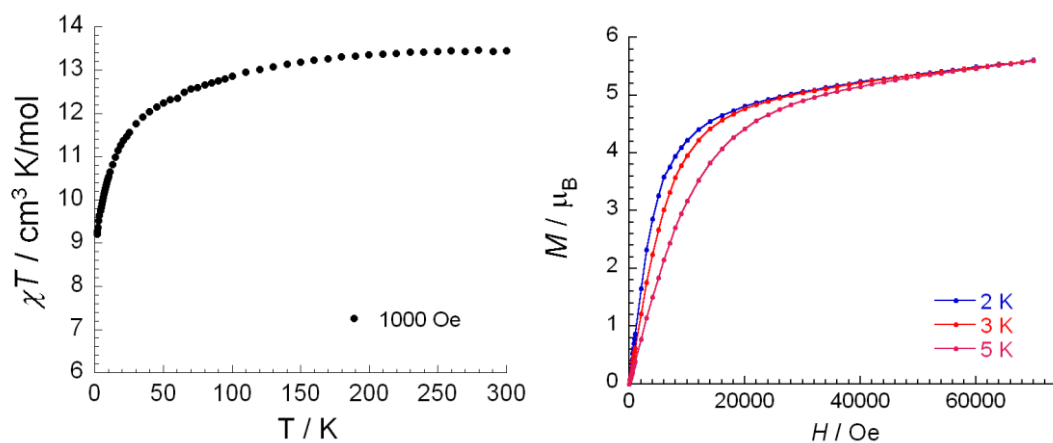


Figure S1. (Left) Temperature dependence of dc magnetic susceptibility of complex **1**. (Right) Field dependence of magnetization of complex **1**.

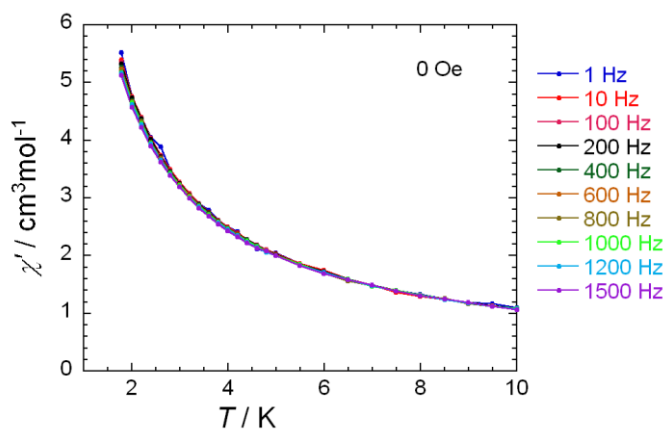


Figure S2. Temperature dependence of in-phase ac magnetic susceptibility of complex **1** at different frequencies.

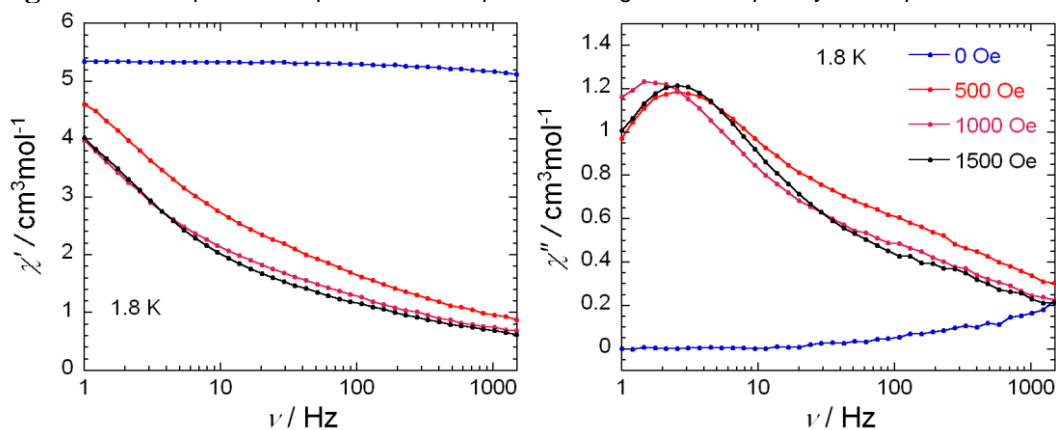


Figure S3. Frequency dependence of ac magnetic susceptibility of complex **1** under different external dc fields.

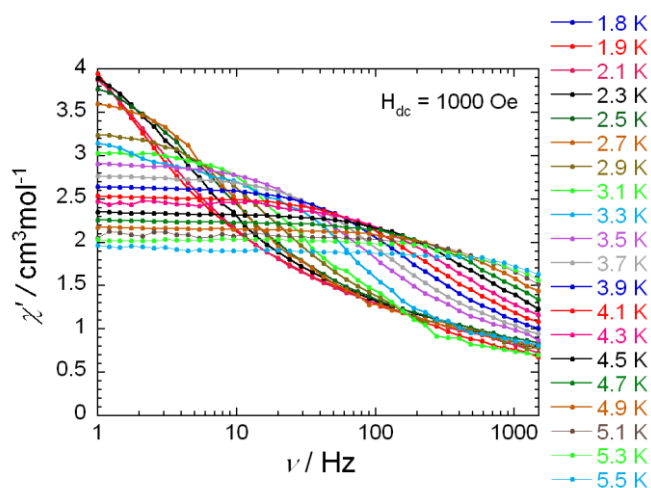


Figure S4. Frequency dependence of in-phase ac magnetic susceptibility of complex **1** at indicated temperatures under a dc field of 1000 Oe.

5

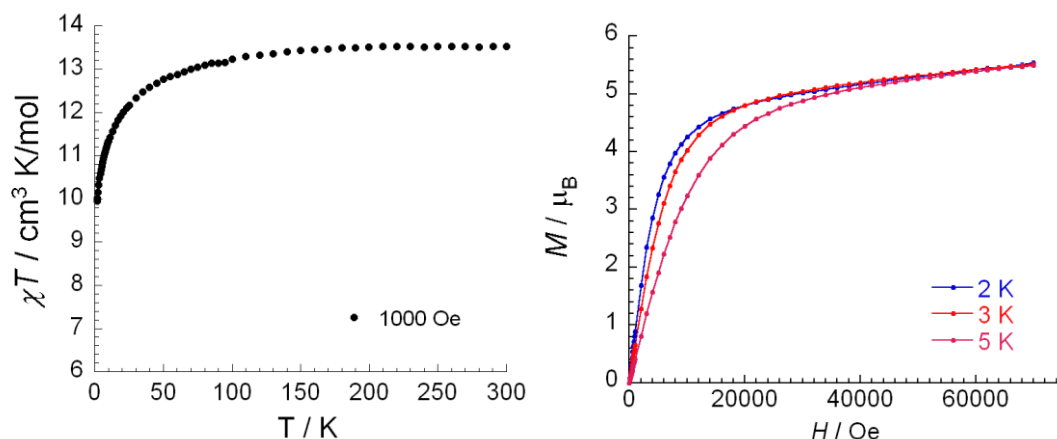


Figure S5. (Left) Temperature dependence of dc magnetic susceptibility of complex **1**. (Right) Field dependence of magnetization of complex **2**.

10

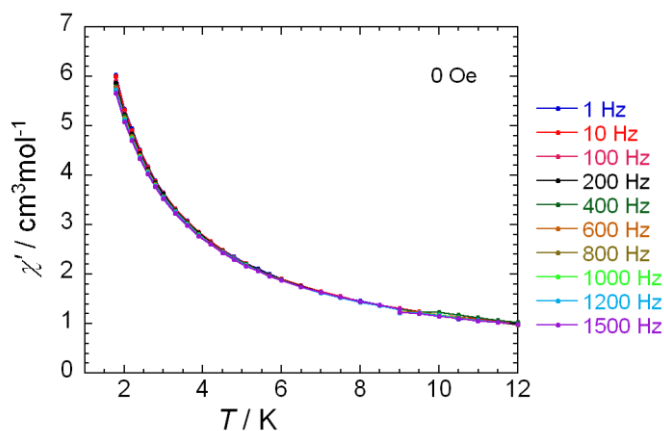


Figure S6. Temperature dependence of in-phase ac magnetic susceptibility of complex **2** at different frequencies.

15

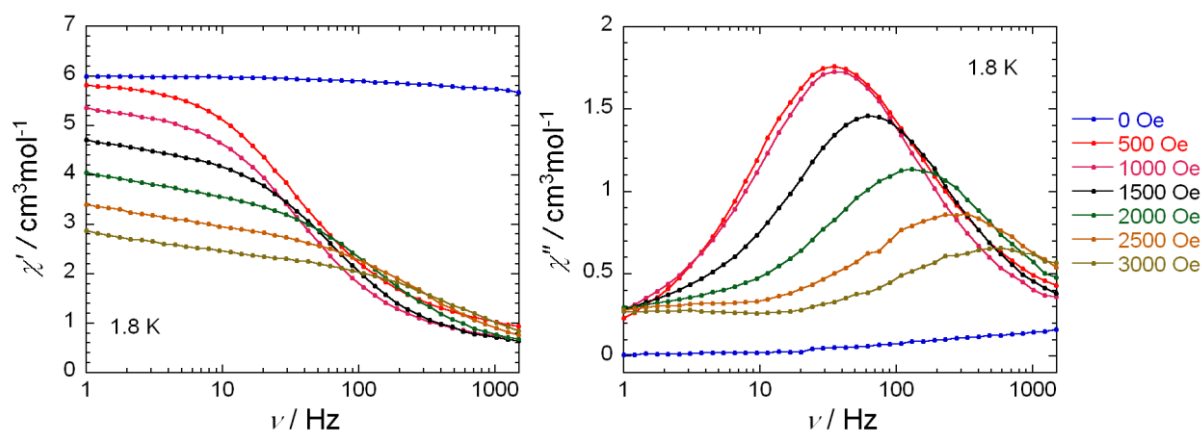


Figure S7. Frequency dependence of ac magnetic susceptibility of complex **2** under different external dc fields.

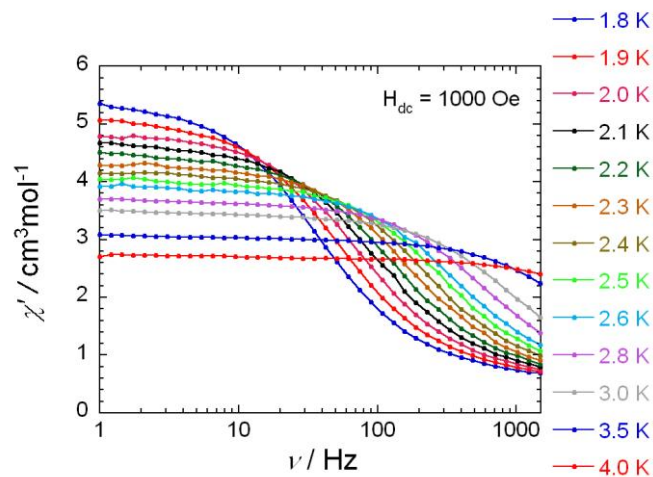


Figure S8. Frequency dependence of in-phase ac magnetic susceptibility of complex **2** at indicated temperatures under a dc field of 1000 Oe.