

Contribution of ^{155}Gd Mössbauer Data to the study of
the magnetic interaction in Heterodinuclear 3d–Gd (3d
= Cu, Ni) Coordination Complexes

Takanari Ayabe,^a Jean-Pierre Costes,^{b*} Laure Vendier,^b
Andreas Geist,^c Masuo Takeda^a, Masashi Takahashi^{a*}

^a) Department of Chemistry, Faculty of Science, Toho University, Miyama,
Funabashi, Chiba 274-8510, Japan

^b) LCC-CNRS, Université de Toulouse, CNRS, Toulouse, France

^c) Karlsruhe Institute of Technology (KIT), Institute for Nuclear Waste Disposal
(INE), P. O. Box 3640, 76021 Karlsruhe, Germany

Supplementary Material

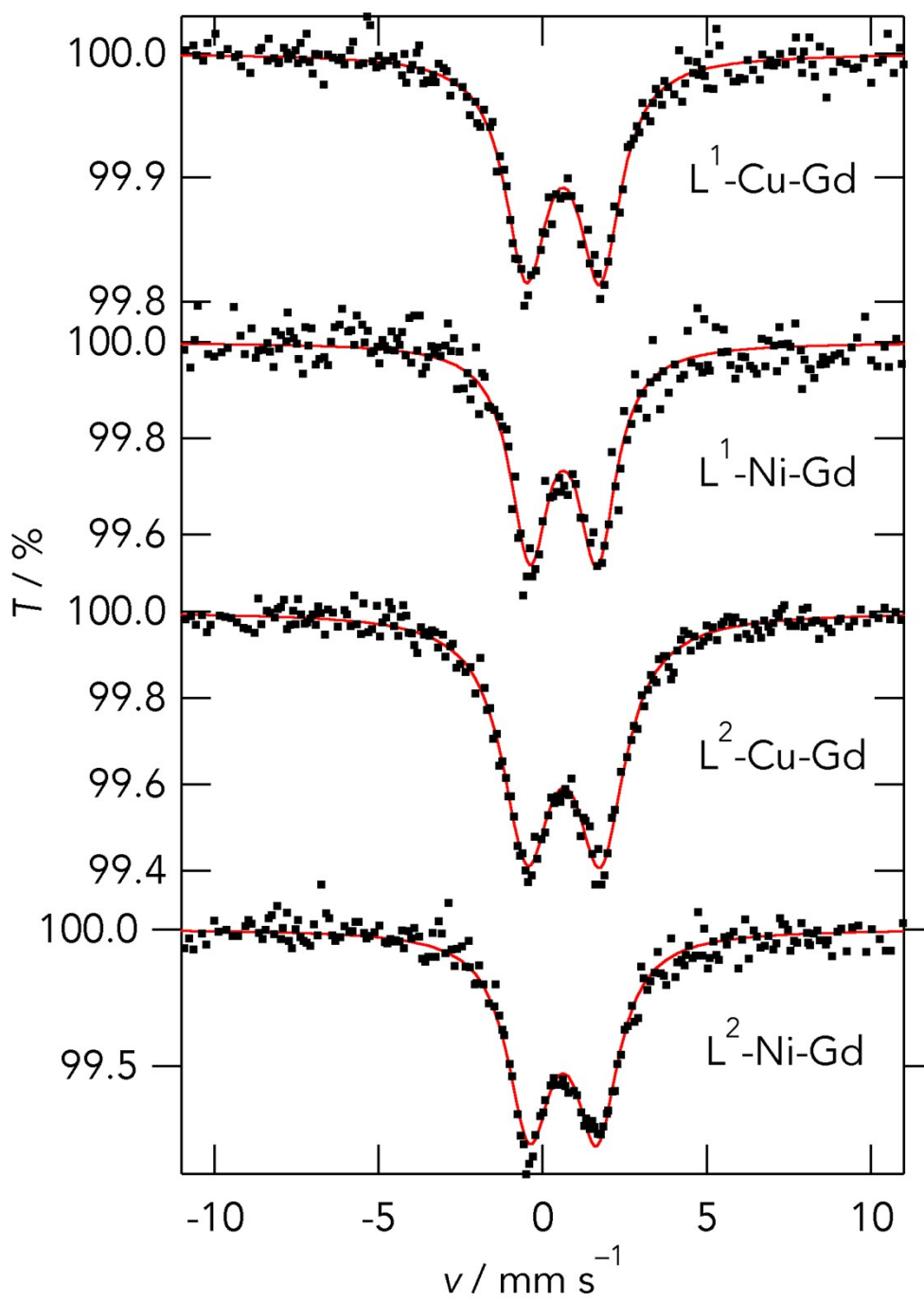


Figure S1. ^{155}Gd Mössbauer spectra at 12 K for $L^1\text{Cu}(\text{OCMe}_2)\text{Gd}(\text{NO}_3)_3$ ($L^1\text{-Cu-Gd}$), $L^1\text{NiGd}(\text{NO}_3)_3 \cdot \text{OCMe}_2$ ($L^1\text{-Ni-Gd}$), $L^2\text{Cu}(\text{OCMe}_2)\text{Gd}(\text{NO}_3)_3$ ($L^2\text{-Cu-Gd}$), and $L^2\text{Ni}(\text{H}_2\text{O})_2\text{Gd}(\text{NO}_3)_3$ ($L^2\text{-Ni-Gd}$).

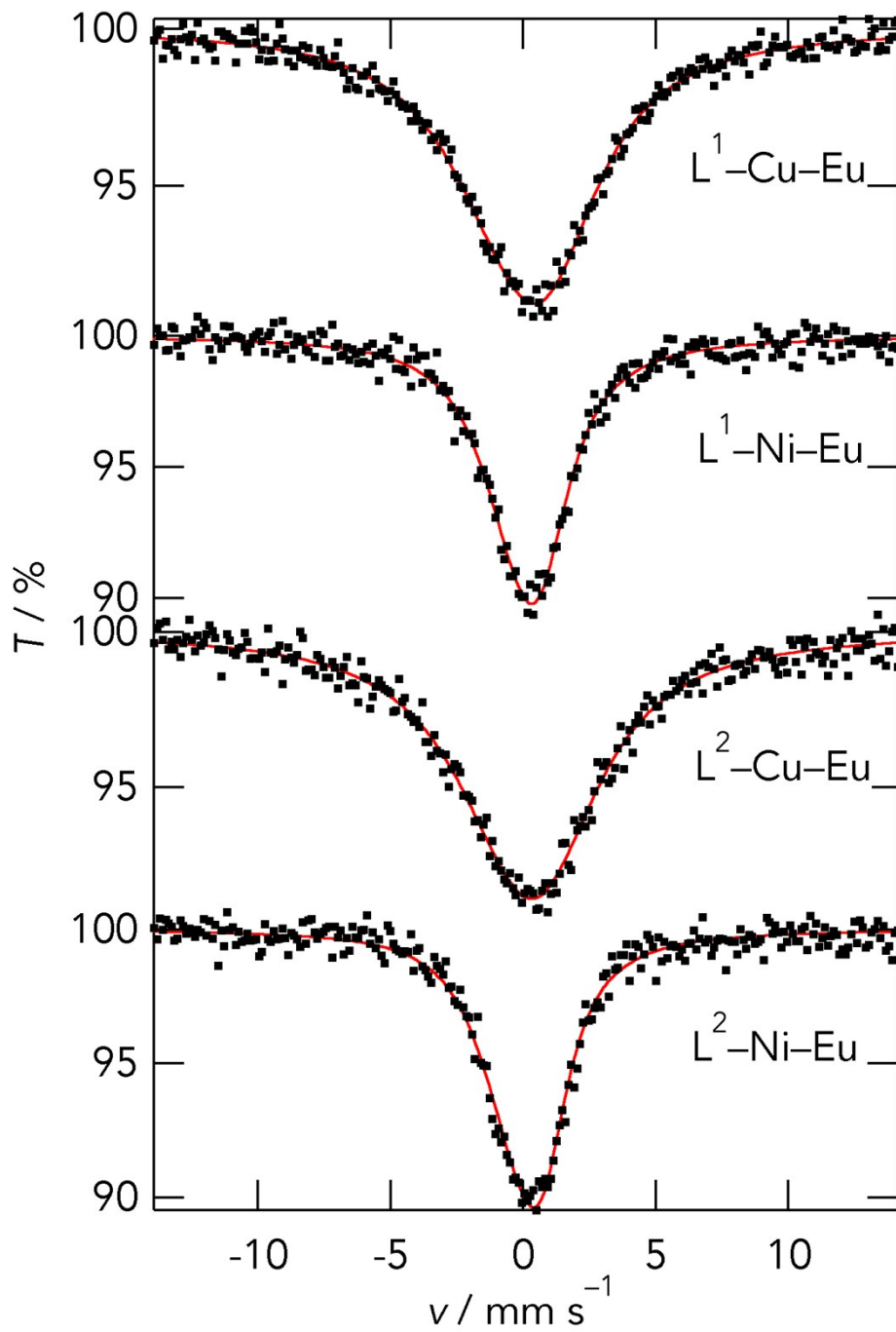


Figure S2. ^{151}Eu Mössbauer spectra at 78 K for $\text{L}^1\text{Cu}(\text{OCMe}_2)\text{Eu}(\text{NO}_3)_3$ ($\text{L}^1\text{-Cu-Eu}$), $\text{L}^1\text{NiEu}(\text{NO}_3)_3 \cdot \text{OCMe}_2$ ($\text{L}^1\text{-Eu-Gd}$), $\text{L}^2\text{Cu}(\text{OCMe}_2)\text{Eu}(\text{NO}_3)_3$ ($\text{L}^2\text{-Cu-Eu}$), and $\text{L}^2\text{Ni}(\text{H}_2\text{O})_2\text{Eu}(\text{NO}_3)_3$ ($\text{L}^2\text{-Ni-Eu}$).