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Electronic Supplementary Information (ESI) for

" *{Ni_4} cubanes from enantiomerically pure 2-(1-hydroxyethyl)pyridine ligand: supramolecular chirality*"

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Table S1 Crystal data, collection and structure refinement details for the X-ray structure determination of complexes **1*R***, **1*S*** and **2*R***.

	1*R*	**1*S***	**2*R***
Formula	$C_{72}H_{114}N_8Ni_8O_{37}$	$C_{77}H_{109}N_8Ni_8O_{30}$	$C_{44}H_{70}N_4Ni_4O_{13}$
FW	2153.39	2096.40	1127.90
System	Orthorhombic	Orthorhombic	Monoclinic
Space group	C 2 2 21	P 21 21 2	*C*2
a/Å	13.814(1)	11.966 (1)	12.548(3)
b/Å	31.128(3)	13.814(1)	20.583(6)
c/Å	11.920(1)	14.230(1)	12.063(3)
α/deg.	90	90	90
β/deg.	90	90	114.28(1)
γ/deg.	90	90	90
V/ Å^3	5125.6(8)	2352.3(3)	2840(1)
Z	2	1	2
T / K	100(2)	100(2)	15(2)
Θ range/deg.	2.350 / 24.661	2.224 / 30.690	2.206 / 24.999
Reflex. collected	28130	57141	20232
Reflex. indep.	4339	7236	4437
Parameters	283	296	256
λ(MoKα), Å	0.71073	0.71073	0.71073
ρ_{calc}, g·cm^{-3}	1.395	1.480	1.319
μ(MoK$_\alpha$), mm^{-1}	1.515	1.643	1.362
Flack parameter	0.04(3)	0.07(2)	0.12(1)
R	0.0452	0.0442	0.0495
ω*R*^{2}	0.1093	0.1069	0.1183

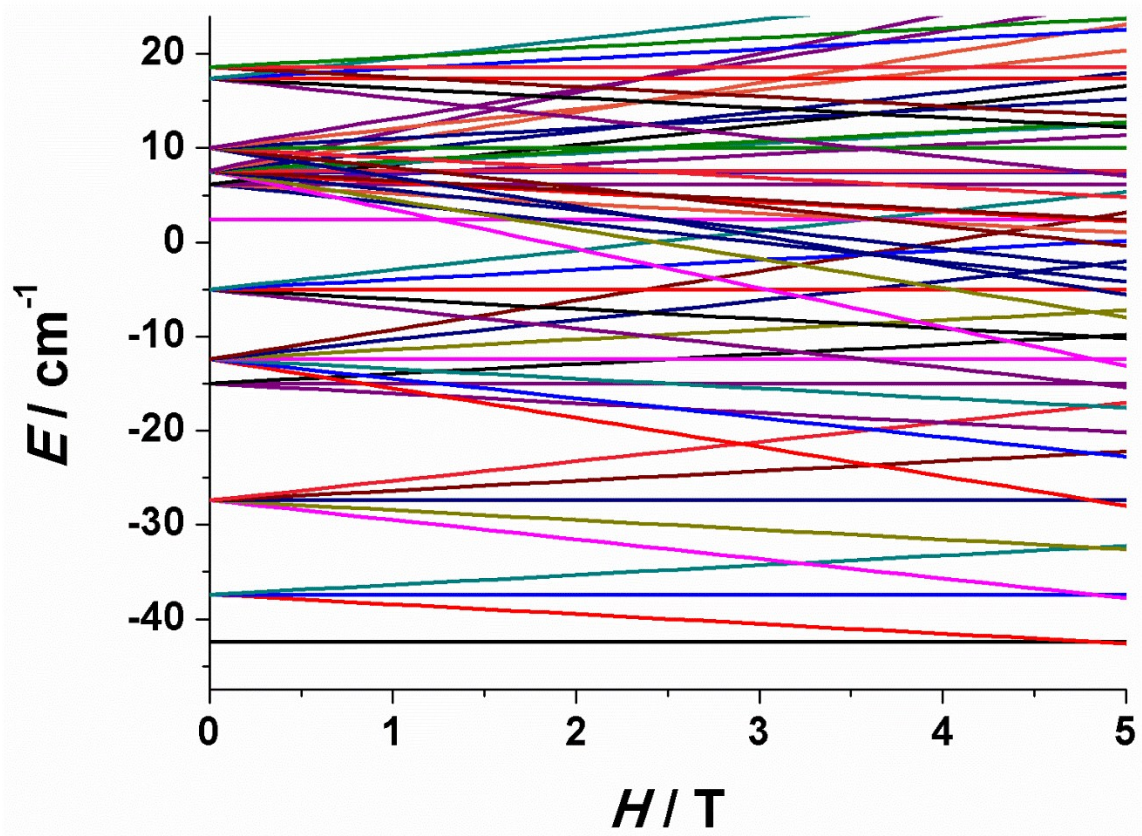

Fig. S1. Energy diagram of the spin states of complex **1*R*** for the fit values J_1 = 3.1 cm^{-1}, J_2 = J_3 = -2.5 cm^{-1}. The ground state is an S = 0 with low lying S =1 (gap 5 cm^{-1}) and S =2 (gap 15 cm^{-1}) spin levels. The low values of the magnetization for increasing fields are consequence of the partial population of the excited m_s = -1 and m_s = -2 that become closer to the S = 0 level.