

Figure S3: Pair wise correlation plots of the experimental residual $^1D_{NH}$ couplings and the respective collinearity factors and angles of the alignment tensors induced by the different lanthanides with respect to each other calculated according to 5(a). (A) Dy^{3+} vs. Tb^{3+} . (B) Tm^{3+} vs. Tb^{3+} . (C) Dy^{3+} vs. Tm^{3+} .

