Synthesis, Structural and Magnetic Characterization of Linear and Bent Geometry Cobalt(II) and Nickel(II) Amido Complexes: Evidence of Very Large Spin-Orbit Coupling Effects in Rigorously Linear Coordinated Co$^{2+}$

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EPR Spectra of 1 and 3, UV-vis spectra of 1-4
**S1.** EPR Spectrum of 1 at 5K in frozen toluene.

![Graph of EPR Spectrum of 1 at 5K in frozen toluene.]

**S2.** EPR Spectrum of 3 at 5K in frozen toluene.

![Graph of EPR Spectrum of 3 at 5K in frozen toluene.]

S3. UV-vis of Co\{N(H)Ar^{Pri\text{6}\}}_2 (1)
S4. UV-vis of Ni(N(H)Ar^{Pri6})_{2} (2)
S5. UV-vis of Co{N(H)Ar$_{Me6}$}$_2$ (3)
S5. UV-vis of Ni{N(H)Ar\text{Me}_6}_2 (4)