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Supplementary Information



Fig.S1 Single octahedral chain viewed along [001] in $Mn_{0.5}Co_{0.5}Sb_2O_4$ showing anisotropic oxygen and antimony displacement parameters (99 % probability). Mn / Co–grey sphere, Sb–blue spheres, O–red ellipsoids.



Fig.S2 Variation of unit cell edge lengths for $Mn_xCo_{1-x}Sb_2O_4$ and $Fe_xCo_{1-x}Sb_2O_4$ at low temperature (2 K – 5 K). Errors are hidden by the symbols.



Fig.S3 Induced magnetic moment per formula unit for $Co_{0.5}Fe_{0.5}Sb_2O_4$. The inset highlights the hysteresis observed in the low field regions.