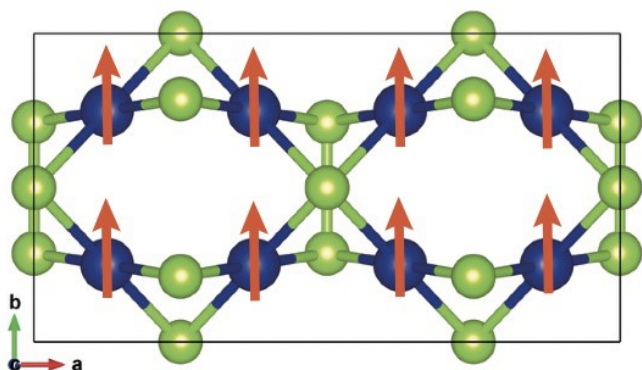


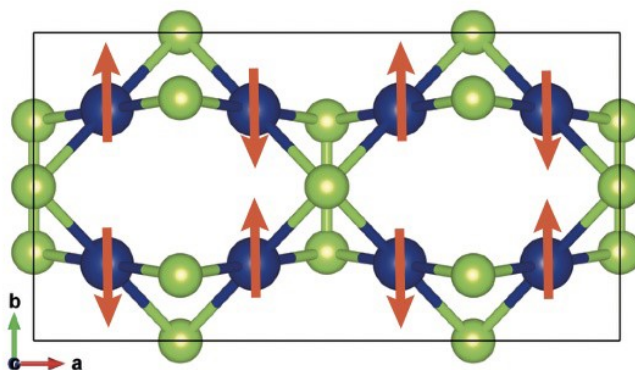
Co-based Janus $M_4X_3Y_3$ ($M = \text{Co}$, $X, Y = \text{S}, \text{Se}, \text{Te}$)

● Co ● S, Se, Te

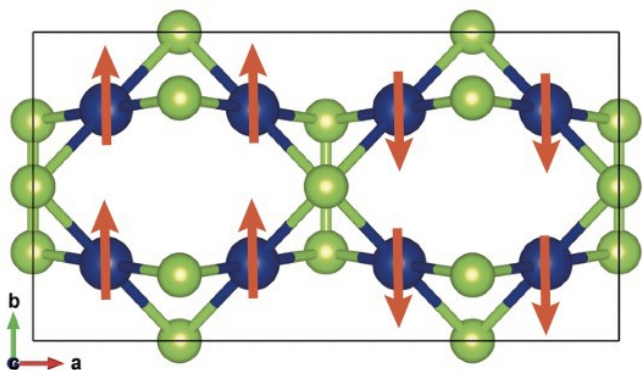
FM



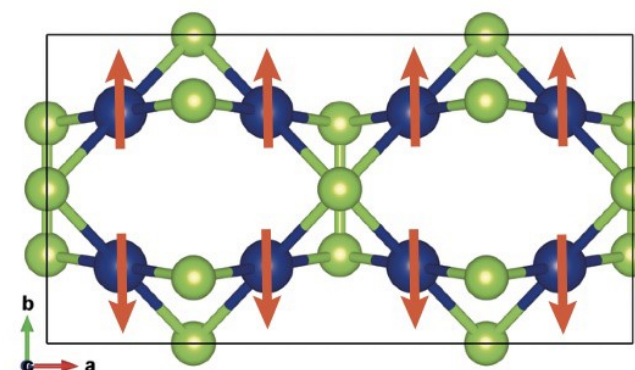
AFM-Neel



AFM-Stripy



AFM-Zigzag



	NM	FM	AFM-Neel	AFM-Stripy	AFM-Zigzag
Co_2Se_3	-105.5199	-105.6860	-105.5312	-105.6325	-105.5216
$\text{Co}_4\text{Se}_3\text{S}_3$	-109.6561	-109.9013	-109.6594	-109.7948	-109.7116
$\text{Co}_4\text{Se}_3\text{Te}_3$	-101.1370	-101.3217	-101.0765	-101.2959	-101.0763
$\text{Co}_4\text{S}_3\text{Te}_3$	-105.31120	-105.5024	-105.3111	-105.3169	-105.3105