

## Electronic Supplementary Information

# Synthesis, Crystal Structure and Magnetic Properties of Layered $\text{SmCrS}_{2-x}\text{Se}_x\text{O}$ Solid Solutions

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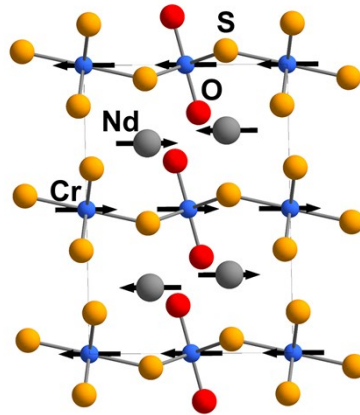
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1. Figure S1: Magnetic structure of NdCrS<sub>2</sub>O at 4 K.

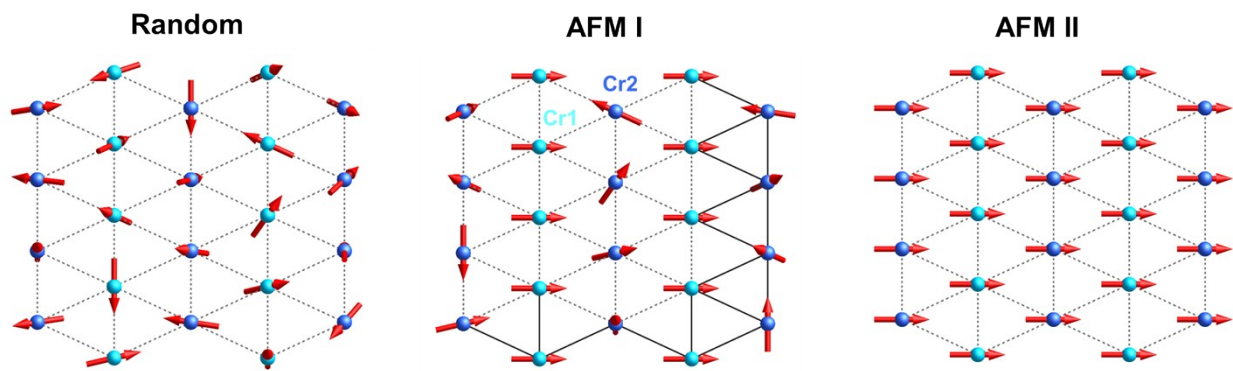
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2. Figure S2: The honeycomb Cr layers with different spin orderings.

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**Figure S1.** Magnetic structure of NdCrS<sub>2</sub>O at 4 K.



**Figure S2.** The honeycomb Cr layers with different spin orderings: (a) random, (b) Cr1 spins ordering and Cr2 spins random, (c) ordering.