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Title: Scaling of the magnetic entropy change in skyrmion material $\text{Fe}_{0.5}\text{Co}_{0.5}\text{Si}$

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Research Highlight:

1. The $\Delta S_M(T,H)$ curves under high field collapse into a universal curve independent of temperature
2. The $\Delta S_M(T,H)$ curves under low field cannot be scaled into a single curve.
3. The scaling investigation of $\Delta S_M(T,H)$ curves indicates the phase transition exhibits a first order characteristic in low field, which is suppressed into a second one under high field.

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