

Abstract Submitted
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Magnetic Observables for Small Antiferromagnetic $S = 1$ and $S = \frac{3}{2}$ Spin Clusters J.T. HARALDSEN, University of Tennessee, T. BARNES, University of Tennessee and Oak Ridge National Laboratory, J.L. MUSFELDT, University of Tennessee — Assuming near-neighbor Heisenberg interactions for $S=1$ and $S=3/2$ antiferromagnetic spin clusters, we predict the inelastic neutron scattering structure factors for several geometries. Several unusual symmetry-breaking effects are anticipated. Our results are applied to real materials.

J.T. Haraldsen
University of Tennessee

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