

Abstract Submitted  
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**Quantum critical dynamics of LiHoF<sub>4</sub>** VADIM OGANESYAN,  
HAIFU MA, CSI/GC-CUNY — We study spin-wave dynamics in the extended  
transverse Ising model appropriate for LiHoF<sub>4</sub> in a field. The model includes electron  
and nuclear spins, as well as lattice deformations. Structure factors are computed  
and compared against neutron scattering data.

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