

Abstract Submitted
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Pretransitional Diffuse Neutron Scattering in Ferroelectric $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ GRACE YONG, Towson University, ROSS ERWIN, NIST Center for Neutron Research, OLEKSIY SVITELSKIY, University of Alberta, JEAN TOULOUSE, Lehigh University, LYNN BOATNER, Oak Ridge National Laboratory, BERNARD HENNION, Laboratory Leon Brillouin, STEPHEN SHAPIRO, Brookhaven National Laboratory — Pretransitional diffuse neutron scattering in ferroelectric $\text{KTa}_{1-x}\text{Nb}_x\text{O}_3$ occurs at (110), (111), and (130) with no diffuse scattering at (100), and (200). These observations will be discussed using the elastic structure factor and ‘uniform phase shift’ description.

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