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BACKGROUND AND EMPLOYMENT:

- Ph.D. (2010): McMaster University (Canada), Supervisor: Dr. Graeme Luke
 - Postdoc (2010 – 2013): ORNL, Mentor: Dr. Steve Nagler
- Current Position: Instrument Scientist (ORNL), co-responsible for HB-1A and CTAX spectrometers at HFIR

RESEARCH INTERESTS:

- Frustrated magnetism: magnetic ground states and excitations in garnets and pyrochlores
- 5d magnetism: magnetic ground states in double perovskites, Kitaev physics on different lattice geometries
- Skyrmions: identification in materials without B20 structure

MANTA spectrometer at HFIR

General design considerations:

- Accommodate large, complex sample environments
 - Must enable full XYZ polarization analysis
- Multi-analyzer configurations are desirable but should still enable the “strengths” of conventional TAS – high intensity at specific **Q**,**E** point to allow for T, B, P parametric studies

