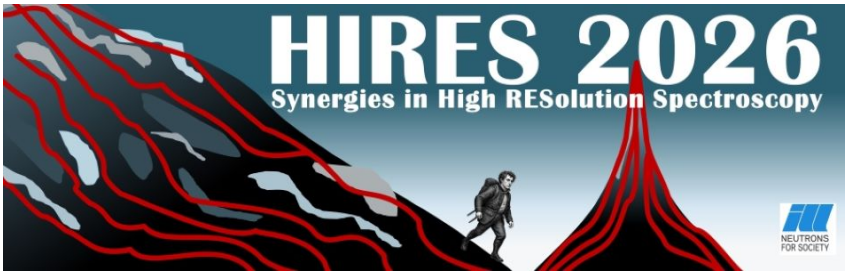

Contribution ID: **50** Type: **Oral**

Magnetic studies in a rare earth Kitaev candidate

We use IN5 and WASP to characterize the magnetic ground state of single crystal SmI_3, a 2D honeycomb magnet proposed as a possible f-electron Kitaev system. The ground state is established as a ferromagnetic correlated quantum spin liquid, however, both of these experiments identify low energy scattering at positions away from the zone center. Our work demonstrates the applicability of combining techniques from these complimentary instruments as a crucial step in measuring the spin liquid continuum scattering in a low-moment system.

Session

Magnetism

Primary authors: TAM, David (Institut Laue-Langevin); FJELLVAG, Oystein (institute for Energy Technology)

Presenter: TAM, David (Institut Laue-Langevin)

Session Classification: Magnetism