Faculty

- Prof. D. P. Watts, 60% of research time, 15% time on KLF also works with CLAS and A2 Collaborations
- Dr. M. Bashkanov, 40% of research time, 40% devoted to KLF, also works with CLAS and A2 Collaborations
- Dr. N. Zachariou, 40% of research time, also works with CLAS Collaboration

PostDocs

- Dr. S. Fegan, 20% of research time on KLF
- Dr. S.J. Kay, 20% of research time on KLF

Graduate Students

TBD

Responsibilities

Note: please include only current, active responsibilities. This is not meant to be a CV for the group. In general, we would like to know who is doing what right now.

- Prof. D.P. Watts hyperon spectroscopy Working Group, hypernuclei physics with UoY hyper-Ge station, rare Kaon decays, exploration of Kaon entanglement possibilities
- 2. Dr. N. Zachariou hyperon-nucleon interactions at KLF and hyperon generators, cascade/Omega spectroscopy.
- 3. Dr. M. Bashkanov is responsible for the Flux monitor, cascade/Omega spectroscopy, dibaryon physics, reactions with neutrons, rare Kaon decays measurements with KFM.
- 4. Dr. S Fegan is responsible for KLF software and KFM detector maintenance
- 5. Dr. S.J.Kay is responsible for KFM calibrations and simulations.

Physics Interests

- 1. Formation of \Sigma* with KXi decays. Determination of cross section and polarisation observables in cascade production reactions.
- Exploring hyperon scattering within target (Lambda-N, Sigma-N, Xi-N, three body Lambda-D, Cascade-D). Determination of cross section and induced polarisations.
- 3. Exploring of multinucleon reactions with Kaon beams
- 4. Neutron induced reactions on nucleons (single...multipion production reactions on proton and neutron target)
- 5. Search for excited \Omega* hyperons in a KK\Omega* final states
- 6. Studies for \beta decay of K-long with the Flux Monitor of KLF and the other rare kaon decays
- 7. Hypernuclei