

People

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.

1. 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 Σ^* with $K\Xi$ decays. Determination of cross section and polarisation observables in cascade production reactions.
2. Exploring hyperon scattering within target (Λ -N, Σ -N, Ξ -N, three body Λ -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 Ω^* hyperons in a $KK\Omega^*$ final states
6. Studies for β decay of K-long with the Flux Monitor of KLF and the other rare kaon decays
7. Hypernuclei

Commented [1]: How specific do we need to be here? Should we specify channels and or (polarisation) observables?

Commented [2]: @nick.zachariou@york.ac.uk would be good to have channels "reserved" for us. It should also be fine if our interests overlaps and we have some channels assigned to more than one person

Commented [3]: Added a couple of details in Physics Interests. Do we need more?

Commented [4]: looks good. Thanks!

Commented [5]: How specific do we need to be here? Should we specify channels and or (polarisation) observables?

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