"Workshop on Nuclear Isomers: Structure and Applications" Programme

Wednesday, 19th May: talks in Lecture Theatre E (LTE)

- 1230: light lunch(ground floor, Lecture Theatre Block)
- 1345: Session I Chair/welcome **Phil Walker** (Surrey)
- 1400: George Dracoulis (ANU) "Isomers in Pb, Po and Rn nuclei with
- $N\leq 126$: from octupole-coupled multiparticle states to signatures of shape coexistence"
- 1445: **Alex Brown** (MSU) "Isomers and their decay modes in the nuclear shell model"
- 1530: tea/coffee
- 1600: Session II Chair **Alison Bruce** (Brighton)
- 1600: Dave Cullen (Manchester) "High-K isomers and gamma softness"
- 1645: contributions
- Jaroslaw Perkowski (Lodz) "Absolute E3 and M2 transition probabilities for electromagnetic decay: K=8 isomeric state in 132Ce"
- Julian Srebrny (Warsaw) "Mechanism of weakening of the K-
- forbiddenness in ¹³²Ce: triaxiality or S-band yrast-band interaction?"
- ${\bf Mark\ Procter}$ (Manchester) "Analysis of states above the K=8 $^{\rm -}$ isomer in $^{138}{\rm Gd}\,^{\rm -}$
- **Filip Kondev** (Argonne) "Decay of the $K=23/2^-$ isomer $(T_{1/2}=160.44d)$ in ^{177}Lu : revisited"
- **Giovanna Benzoni** (Milan) "Shell evolution in the newly explored nrich region around Z=82 and far beyond N=126: experimental details"
- Andrea Gottardo (Legnaro) "Shell evolution in the newly explored n-rich region around Z=82 and far beyond N=126: interpretation" 1800: close
- 1815: reception in the Department of Physics (30BB03)
- 1900: David Sanderson (SUERC) "Detecting irradiated food" LTM (IoP talk)

Thursday, 20th May: talks in Lecture Theatre F (LTF)

- 0900: Session III Chair Rodi Herzberg (Liverpool)
- 0900: **Paul Greenlees** (Jyväskylä) "In-beam and decay studies of high-K states in heavy nuclei"
- 0945: Furong Xu (Peking) "Probing the structure of isomers using a configuration-constrained PES model"
- 1030: tea/coffee
- 1100: Session IV Chair Filip Kondev (ANL)
- 1100: Rod Clark (Berkeley) "Isomer studies of the heaviest nuclei"
- 1145: contributions
- **Edward Parr** (Liverpool) "Structure assignment methods for K-isomers in N=150 nuclei"
- **Ulrika Jakobsson** (Jyväskylä) "Isomeric states in 197,199 At and 203,205 Fr"
- <code>David O'Donnell</code> (Daresbury) "Recoil-isomer tagging studies in the vicinity of Z=82 and N=82 shell closures"
- **Pauli Peura** (Jyväskylä) " $13/2^+$ isomeric states in neutron deficient 173,175 Pt nuclei"

1245: lunch

1400: Session V Chair **Zsolt Podolyak** (Surrey)

1400: Hiroshi Watanabe (RIKEN) "Isomeric decay spectroscopy at

RIKEN RI Beam Factory"

1445: Yang Sun (Shanghai) "Projected shell model description of K isomers"

1530: tea/coffee

1600: Session VI Chair **Dave Cullen** (Manchester)

1600: Phil Walker (Surrey) "K-isomer decay rates"

1645: contributions

Sukhjeet Singh (Mullana) "Three-quasiparticle-plus-rotor Coriolis coupling calculations"

Costel Petrache (Orsay) "High-spin isomers in nuclei around the N=82 shell closure"

Pete Mason (Surrey) "Recoil-isomer tagging of extremely neutron-deficient nuclei, $^{142}{\rm Tb}$ and $^{144}{\rm Ho}\,{}^{\rm "}$

Alick Deacon (Manchester) "Deformation in the mid fp-shell region: isomer tagging in $^{59}\mathrm{Cr}$

Panu Ruotsalainen (Jyväskylä) "A recoil-beta tagging study of the N=Z nucleus 66 As"

1800: close

1930: dinner at Zizzi (274 High Street, Guildford)

Friday, 21st May: talks in Lecture Theatre D (LTD)

0900: Session VII Chair **Jeff Tostevin** (Surrey)

0900: **Andrea Jungclaus** (Madrid) "Isomer spectroscopy after fragmentation and fission reactions at relativistic energies" 0945: contributions

Tim Brock (York) "High-spin isomers in 94Pd"

Ed Simpson (Surrey) "Differential isomeric ratios following two-proton knockout from $^{208}\text{Pb}"$

 ${\tt Szymon~Myalski}$ (Krakow) "Isomeric ratios for nuclei produced in the fragmentation of $^{208}{\rm Pb}$ at 1 AGeV"

Ana Denis Bacelar (Brighton) "Fragmentation reaction studies of high-spin isomeric states"

1045: tea/coffee

1115: Session VIII Chair Pete Thompson (AWE)

1115: contribution

Matt Reed (Surrey) "Discovery of high-spin long-lived K isomers in neutron-rich Ta and Hf isotopes using the ESR at GSI"

1130: Gilbert Gosselin (CEA) "Nuclear excitation in plasmas:

theory and applications"

1215: Jeff Carroll (Youngstown) "Isomers and apps"

1300: close/end (light lunch for participants)