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## Workshop on “Next Generation Isomers”, 2 April 2007, Guildford

As a satellite to the IoP Nuclear and Particle Physics Conference, 3-5 April 2007, [www.iop.org/Conferences/Forthcoming\\_Institute\\_Conferences/event\\_6535.html](http://www.iop.org/Conferences/Forthcoming_Institute_Conferences/event_6535.html) there will be a workshop on “Next Generation Isomers” on Monday, 2 April 2007. Both meetings will take place at the University of Surrey, Guildford, Surrey, UK.

The aim of the isomer workshop is to take stock of the current knowledge of nuclear isomers, and to look forward to the new opportunities with radioactive-beam facilities. Aspects of isomers to be discussed include high spin, far from stability, and the atomic-nuclear interface.

Radioactive beams are opening many new vistas, especially so for isomer research. Isomers provide “stepping stones” as we reach towards the ultimate limits of nuclear stability. New types of experiment can be envisaged, some in novel environments such as storage rings and plasmas. The workshop brings together a range of issues from which further ideas may emerge.

The workshop will be based around a series of invited talks. Posters and contributed talks will not form part of the workshop, but delegates are encouraged to make submissions to the main conference (see web address above).

Isomer workshop speakers:

**Carsten Brandau** (GSI) "Storage ring experiments at the interface of atomic and nuclear physics"

**Thomas Bürvenich** (Frankfurt) "Direct interactions between nuclei and laser pulses"

**Paul Campbell** (Manchester) "Moments and radii of isomeric nuclear states"

**Jeff Carroll** (Youngstown) Photo-induced isomer decays (tentative title)

**Lidia Ferreira** (Lisbon) "Proton and neutron emission from high spin isomers"

**Adam Hayes** (Rochester) "The loss of K selection in  $^{178}\text{Hf}$ "

**Rodi Herzberg** (Liverpool) "Isomers in superheavy nuclei"

**Andrea Jungclauss** (Madrid) "New isomers in the doubly magic  $^{132}\text{Sn}$  region"

**Gary Simpson** (Grenoble) "Microsecond isomers from fission fragments"

**Yang Sun** (Notre Dame) "Structure of K-isomers in superheavy nuclei"

**Peter Thompson** (AWE) "Search for isomer production in high-intensity laser-plasma interactions"

To ensure that you are on the mailing list for future information about the isomer workshop, please send an e-mail to [p.walker@surrey.ac.uk](mailto:p.walker@surrey.ac.uk)

We look forward to welcoming you to Guildford in April 2007.

Phil Walker

On behalf of the isomer workshop organising committee: Alison Bruce (Brighton), Dave Cullen (Manchester), Paul Stevenson (Surrey), and Phil Walker (Surrey).

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