

Workshop on Next Generation Isomers, University of Surrey, 2nd April 2007:

This one-day workshop on nuclear isomers was organised by Phil Walker (Surrey) in collaboration with Alison Bruce (Brighton), Dave Cullen (Manchester) and Paul Stevenson (Surrey). It was a satellite to the IoP Nuclear and Particle Physics Divisional Conference, also held at the University of Surrey (3-5 April). The workshop, attended by more than 70 delegates, had 12 invited speakers from Croatia, France, Germany, Portugal, Spain, UK and USA. The speakers gave stimulating talks about several nuclear structure frontiers (superheavy elements, proton drip line, r-process nuclides, collinear laser spectroscopy) with emphasis on the key role of isomers. In conjunction with nuclear structure, an important part of the meeting focused on the atomic-nuclear interface, and attempts to control isomer excitation and decay with external fields, such as can be obtained from high-power lasers, X-rays, Coulomb excitation, and electron interactions in a storage ring. The variety of influences that come to bear on nuclear isomers is at the same time perplexing and invigorating. There is still much to learn about many fundamental processes, and it is hoped that this workshop has contributed usefully to exploiting the isomer opportunities that are opening up with the next generation of radioactive-beam facilities. Workshop presentations can be downloaded from <http://personal.ph.surrey.ac.uk/~phs3psisomers07/>
