

**Report on the IoP half-day meeting on “Physics Opportunities  
with Monoenergetic MeV Photons from a Compton  
Backscattering (CBS) Facility at 4GLS”**

Held on 1.6.2007 in Liverpool

Organiser: Prof. Rolf-Dietmar Herzberg, Liverpool

Speakers: Prof. Andreas Zilges, University of Cologne  
Prof. Norbert Pietralla, TU Darmstadt  
Dr Gerd Priebe, STFC Daresbury  
Dr David Holder, ASTeC STFC Daresbury

Website: [http://ns.ph.liv.ac.uk/~rdh/new\\_page\\_2.htm](http://ns.ph.liv.ac.uk/~rdh/new_page_2.htm) (contains all talks)

30 Attendees: G. Hirst (STFC Central Laser Facility)  
G. Priebe, M. McDonnell, M. Labiche (STFC Daresbury)  
D. Holder (ASTeC STFC Daresbury)  
J. Billowes, B. Cheal (U Manchester)  
P. Thompson (AWE)  
A. Zilges (U Cologne)  
N. Pietralla (TU Darmstadt)  
P. Butler, R-D Herzberg, P. Weightman, (U Liverpool)  
+ 14 Students and 3 Postdocs from Liverpool

The meeting aimed to bring together expertise from nuclear physics, accelerator science and Laser physics to explore the feasibility of a Compton Backscattering Setup at 4GLS for Nuclear Physics. The meeting was very focussed and resulted in a flagship proposal (attached) for 4GLS which has in the meantime been accepted by the scientific steering committee of 4GLS. This may well result in a specialist photonuclear facility at 4GLS. Strong support for the project has been expressed by a number of UK and overseas institutions. This process would have been impossible at such short notice without the IoP sponsored half-day meeting.

R-D Herzberg