

PASI Target Studies

General meeting – 9th September 2014

Agenda

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| (1) Welcome and review | - Rob Edgecock (15 mins) |
| (2) HIPSTER | - Chris Densham (25 mins) |
| (3) Target erosion tests | - Otto Caretta (25 mins) |
| (4) Thermal tests for Mu2e targets | - Peter Loveridge (25 mins) |

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| (5) Upgrade to the "little wire test" | - Adrian McFarland (15 mins) |
| (6) Binary ice cooling | - Roger Bennett (30 mins) |
| (7) Instrument performance gains from a
geometric optimization study of ISIS TS1 | - Stuart Ansell (30 mins) |
| (8) Studies of TS1 upgrade to >1 MW | - Cristian Bungau (30 mins) |
| (9) Powder target studies | - Otto Caretta (30 mins) |

PASI Target Studies Status

- Started: 1st April 2012; finish 31st March 2016
- Most of WPs and resources cut, so reasonable progress
- Changes being made for last 1.5 years:
 - new convener for WP1 (David too busy!)
→ Tristan Davenne
 - more focus to WP1 activities
- Will need to apply for new funding in advance of finish
- Depends on outcome of STFC accelerator review

PASI Target Studies Accelerator Review

STFC is conducting a review to provide information on the breadth and scope of the STFC's current UK accelerator science programme and to underpin the development of STFC's accelerator strategy. The review will report to [Science Board](#) for comment and development of a high-level accelerator strategy. [The Accelerator Strategy Board](#) (ASB) will then establish a more detailed accelerator strategy and prioritised roadmap based on the findings in the review report and high-level strategic direction from Science Board.

Professor Dan Tovey, University of Sheffield, Chair

Dr Rob Appleby, University of Manchester, Cockcroft Institute

Dr Riccardo Bartolini, John Adams Institute for Accelerator Science, Diamond Light Source

Dr Oliver Bruning, CERN, Accelerators and Beam Physics Group

Professor Jim Clarke, ASTeC

Mr Jonathan Flint, Oxford Instruments

Professor Sue Kilcoyne, University of Huddersfield

Dr John Thomason, ISIS

PASI Target Studies Accelerator Review

Proformas sent to:

Institutes and Centres

The Accelerator Science and Technology Centre (ASTeC)

The Cockcroft Institute (CI)

The John Adams Institute for Accelerator Science (JAI)

Projects and Themes

Advanced Wakefield Experiment (AWAKE)

The Compact Linear Collider (CLIC)

Muon Ionisation Cooling Experiment (MICE)

The Front End Test Stand (FETS)

Target Studies

Facilities

The Central Laser Facility

Diamond Light Source

ISIS

Departments

Imperial College, London

University College, London

University of Huddersfield

University of Strathclyde

PASI Target Studies Accelerator Review

- Ours prepared with input from many (thanks!)
- Circulated by email
- Highlights:
 - Journal publications: 30
 - IPAC, etc: 41
 - External funding: £1.95M
- As usual, not asked what we think the future should be
- Outcome: end of the year?
- Need to decide after that the next step