

ess bilbao initiative workshop

Multi-MW Spallation Neutron Sources: Current Challenges and Future Prospects

16th, 17th and 18th March 2009
Venue: Bilbao Exhibition Centre



www.essbilbao.com/workshop2009



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SCOPE

- accelerators**
- High power, highly reliable Front Ends
 - High intensity light ions Linacs: systems design, beam dynamics, performance and current projects, reliability issues,
 - Synergies with ongoing and planned projects on accelerator driven systems, transmutation, neutrino factories, HEP injectors, materials science
 - Beam loss handling and diagnostics systems for high brightness hadron accelerators,
 - Current state of theory and simulation tools, confronting predictions with experiment,
 - Low-energy superconducting structures, how competitive are for energies below 100 MeV,
 - Radio frequency issues: where are we on high-gradient cavities and high power couplers, and current expectancies; current problems with the operation of high power, high duty cycle klystron/modulator systems,
 - Compatibility of the proposed ESS design with future upgrades
 - Energy usage, how to minimize electricity consumption without seriously compromising the performance

targets

- Spallation targets from liquid-metal and liquid metallic-alloys: Experiments and simulations on liquid metal loops
- Solid metallic targets: known limits and mitigation schemes for thermal loads,
- The Target/Reflector/Moderator complex, available simulation tools and current problems.

INTERNATIONAL ADVISORY COMMITTEE

name	organisation
Ian Anderson	SNS - Oak Ridge National Laboratory
Günter Bauer	
Jean Delayen	Jefferson Lab
Romuald Duperrier	CEA-Saclay
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