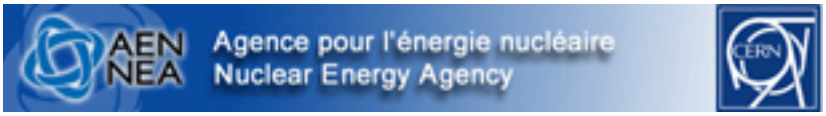

Contribution ID: **43** Type: **not specified**

Mega-Watt Beams: Energy Deposition, DPA, Shielding and Activation

Wednesday 2 June 2010 14:00 (20 minutes)

The next generation of accelerators for Mega-Watt proton and heavy-ion beams put unprecedented requirements on the accuracy of particle production predictions, the capability and reliability of the codes used in planning new accelerator facilities and experiments, the design of machine, target and collimation systems, detectors and radiation shielding and minimization of their impact on environment. Recent advances in code developments are described for the critical modules related to these challenges. Examples are given for the most demanding areas: particle production in precision experiments, targetry, focusing devices, beam absorbers, radiation shielding, induced radioactivity and radiation damage. The current experimental activities in these areas are also described.

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Session Classification: Session 1 - Source term and related topics

Track Classification: Source term and related topics