

Service de Physique Nucléaire



Séminaire

le vendredi 27 juin 2008 à 11h

CEA-Saclay SPhN, Orme des Merisiers Bât. 703 Salle 135

Nuclear waste transmutation and non-proliferation examples

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The presentation is devoted to some aspects of nuclear waste transmutation not forgetting non-proliferation issues. It starts with a survey of attempts to define the notion of 'proliferation resistance' in quantitative terms. Then it proceeds with an exercise of 'transmutation + non-proliferation' approach in transmutation studies. Finally, I will introduce a concept of the innovative ADS system for nuclear waste transmutation, consisting of a spallation target and a sub-critical nuclear core, both based on gas cooled high temperature technologies. Importance of the nuclear data for minor actinides will be emphasized.

Le café sera servi 10 minutes avant, en salle 125

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