

Service de Physique Nucléaire



Séminaire

le vendredi 4 avril 2008 à 11h

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

Lifetime measurements around the doubly-magic nucleus ^{48}Ca with the CLARA-PRISMA setup.

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Lifetimes of short-lived excited states around the doubly-magic nucleus ^{48}Ca have been measured using the Recoil Distance Doppler Shift method (RDDS) in combination with the CLARA and PRISMA spectrometers.

This novel method allows to measure lifetimes of neutron-rich nuclei populated via multi-nucleon transfer reactions that were inaccessible before and it partially overcomes one of the limitations that the RDDS singles measurement presents, namely the side-feeding.

Results from a recently performed experiment at LNL using a ^{48}Ca beam onto a ^{208}Pb target followed by a thick natural Mg degrader with the CLARA-PRISMA setup will be discussed.

Le café sera servi 10 minutes avant, en salle 125

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