



ID de Contribution: 1

Type: Non spécifié

Multinucleon transfer reactions in the $40\text{Ar}+208\text{Pb}$ and $36\text{S}+208\text{Pb}$ systems

mardi 15 novembre 2011 15:00 (30 minutes)

Two multinucleon transfer experiments performed at the LNL will be presented.

- The $40\text{Ar}+208\text{Pb}$ reaction was used to populate $40\text{-}43\text{Ar}$ isotopes via the $0n$ to $3n$ channels. Residues were identified in the Prisma spectrometer and the coincident gamma rays in the Clara gamma array.
- More recently, the $36\text{S}+208\text{Pb}$ reaction (July 2011) allowed the study of lifetimes of intruder states in $N=20$ Si, P and S isotopes. Recoils were tagged in the Prisma spectrometer at the grazing angle and gamma-rays were detected in the AGATA demonstrator associated with the Köln plunger device for lifetimes measurement.

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