
Experiment Title Measurement of lifetimes and absolute cross-
sections in
the region of heavy mass p ? nuclei (part II)
Experiment Responsible Lucian Stroe
 e-mail address stroe@tandem.nipne.ro
 phone +4021 4046127

Short presentation of the scientific project

The proposed experiment is the continuation of the one performed in
December 2009,
when the absolute cross-sections for the (p,n) and (p,gamma) reactions on
the 147Sm
and 149Sm isotopes were measured at 2 different energies (of about 8.5 and
7.5 MeV).
This time the cross-sections will be measured at the energies of about 6.5
and 5.5
MeV.

Beam time request(unit=8 hours) : 15
Desired Period : any

Desired beam properties

Type : p
Energy(MeV) : 6-7 MeV
Intensity(p/nA) : up to 500 nA
Vacuum Requests : 10⁻⁷

Special requirements for detectors, electronics,aquisition system

Minimal information needed for the radiological risk evaluation:

a)Source activity :
b)Use of open sources :
c)Estimate of the residual activity as a result of irradiation :
d)Means of storage/transportation for irradiated targets :