

DEAR management board of TANDEM

Experiment Title Contract EURATOM JW-13-FT-1.21, ôAMS and FC+LSC
investigation of fuel retention in various JET tilesö
Experiment Responsible Stan-Sion Catalin
e-mail address stansion@nipne.ro
phone 0724551722

Short presentation of the scientific project

Contract EURATOM JW-13-FT-1.21

This contract is a continuation of our work inside of the EURATOM contract.

Our actual contract is registered under no. JW-13-FT-1.21, has the title: ôAMS and FC+LSC investigation of fuel retention in various JET tilesö and refers to the measurement of key role values and characteristics for the construction of the first fusion reactor in Cadarache France called ITER. The AMS investigations concern the following items:

- Studies of the efficiency of tungsten depositions in plasma facing material in respect to the reduction of fuel retention and especially of tritium.
- Investigation of the different divertor geometries use at JET.
- Experimental investigation of diffusion of hydrogen isotopes through protection tiles.
- Testing of new depositions solutions for the protection tiles of the reactor vessel in cooperation with manufacturer from Romania.

Beam time request(unit=8 hours) : 32
Desired Period : November 2013

Desired beam properties

Type : 12C
Energy(MeV) : 30
Intensity(p/nA) : 1000
Vacuum Requests : 10-6

Special requirements for detectors, electronics,aquisition system

Sincroscope , one TFA , Cs for ion source

Minimal information needed for the radiological risk evaluation:

a)Source activity : no
b)Use of open sources :
c)Estimate of the residual activity as a result of irradiation : no radiation
d)Means of storage/transportation for irradiated targets : no need

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