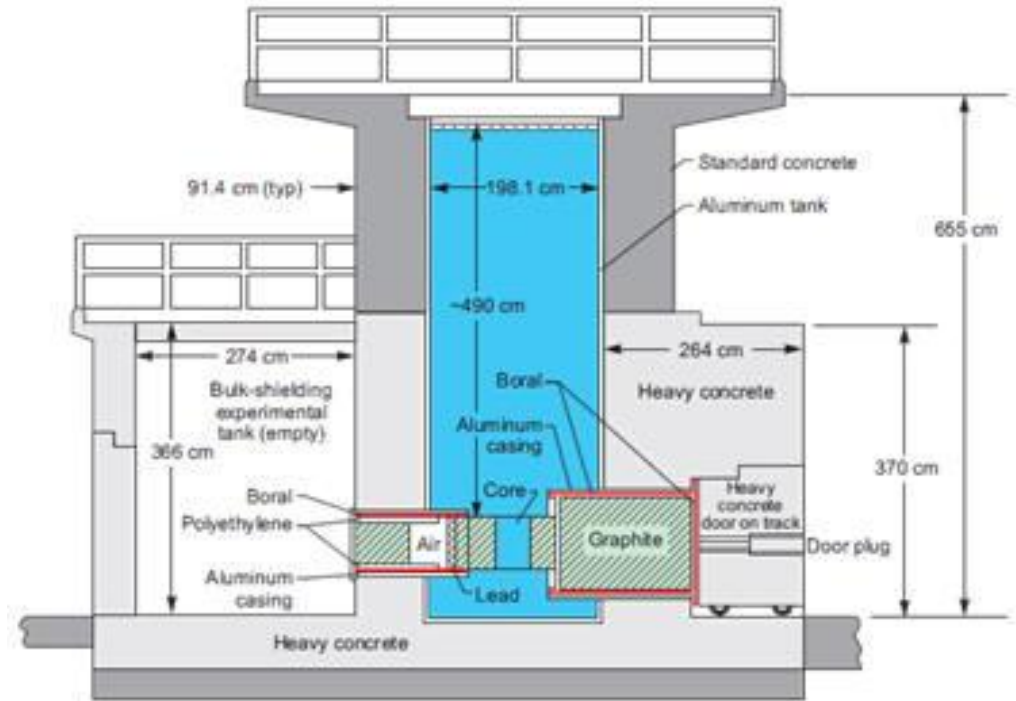


# Irradiations with neutrons at TRIGA\_Mark III reactor

The reactor research centre is a part of Jožef Stefan Institute,

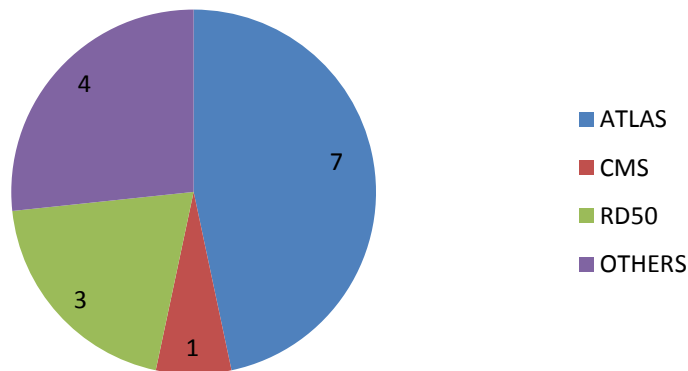


Reactor: 250 kW maximum power, can be regulated to few W.  
Total flux at maximum power is  $4 \times 10^{12} \text{ cm}^{-2} \text{ s}^{-1}$  (central channel).  
NIEL (in Si) damage constant is 0.9 for fast neutrons.  
Several in-core and ex-core irradiation channels  
Maximum uninterrupted irradiation time is 16h.  
All irradiations done in two irradiation tubes.  
Accuracy of fluence is  $\pm 10\%$

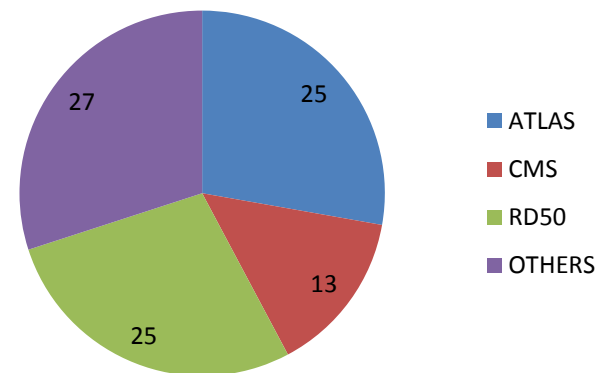
## 1st year:

- 16 projects completed
- 90 irradiations
- 140 units of reactor (540 foreseen in 4 years)

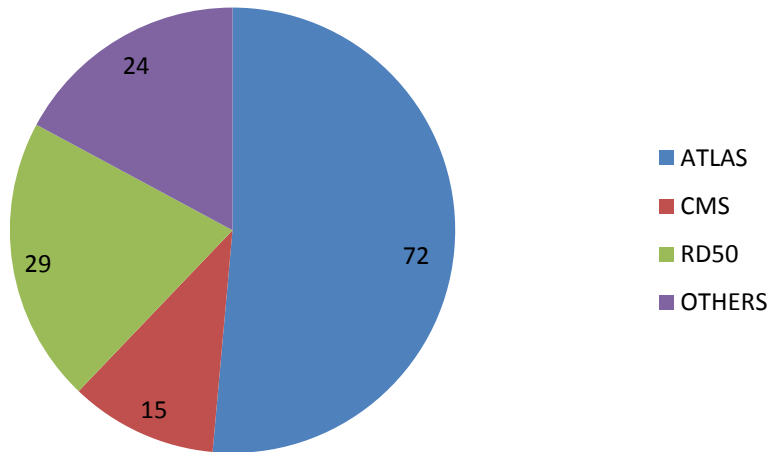
### Number of projects:



### Number of irradiations :



## Hours of reactor:



No requests to support visits by AIDA.

### Problems encountered:

- sometimes activation higher than expected (composition of samples not exactly known)
- shipment of activated devices
- ADR 2011 is guideline for transportation on road
- shipment by air limited to few companies
- succeeded to ship excepted packages by air to CERN, DESY

# 2012

- 11 approved projects
- 3 projects already completed