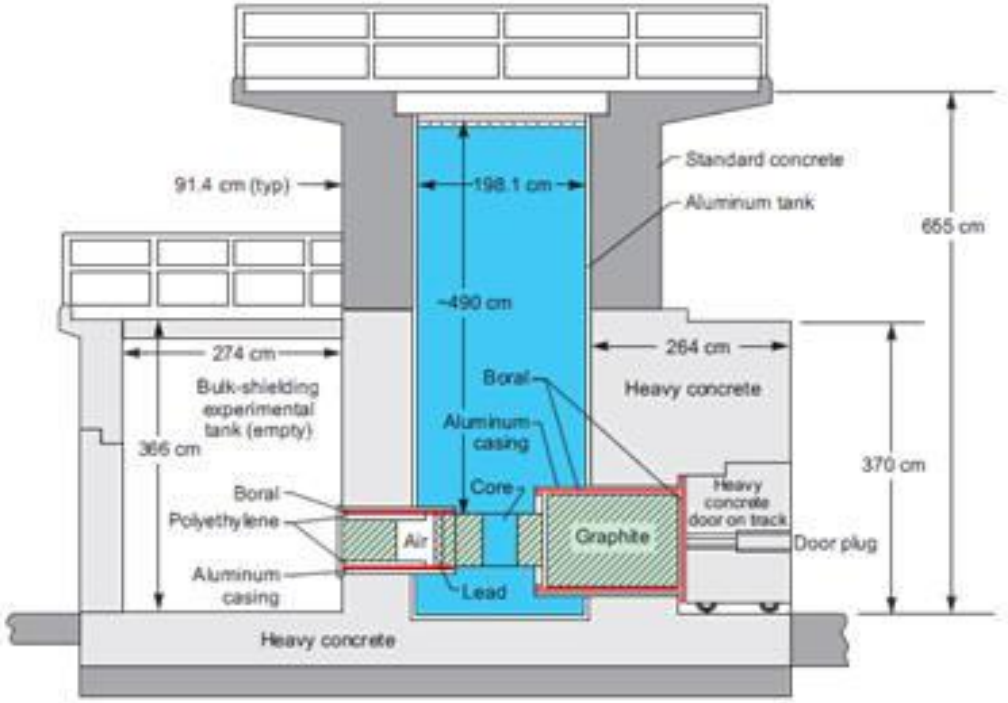
# Irradiations with neutrons at TRIGA _Mark III reactor

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 $4x10^{12}$ $cm^{-2}s^{-1}$ (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.
Highest fluence for AIDA $10^{17}$ $cm^{-2}$
All irradiations done in two irradiation tubes.
Accuracy of fluence is ± 10%

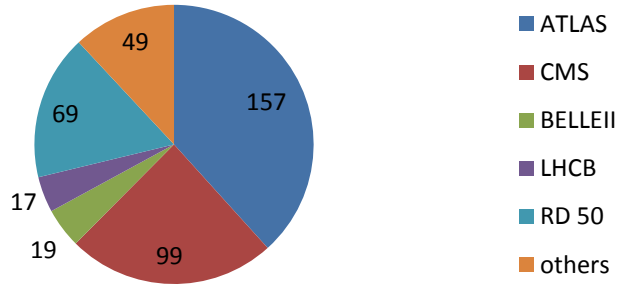
## 1st year:

-16 projects
- 90 irradiations
- 140 units of reactor

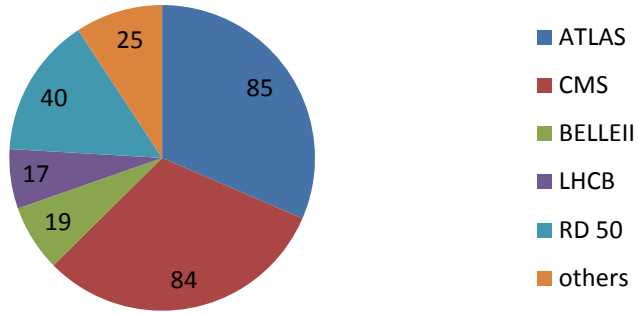
## 2nd year

-24 projects
-105 irradiations
- 270 units of reactor

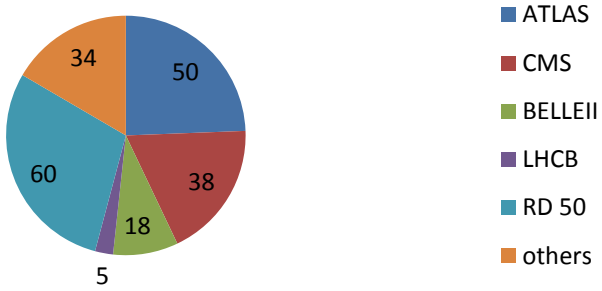
## 410 Irradiation units - 2 years



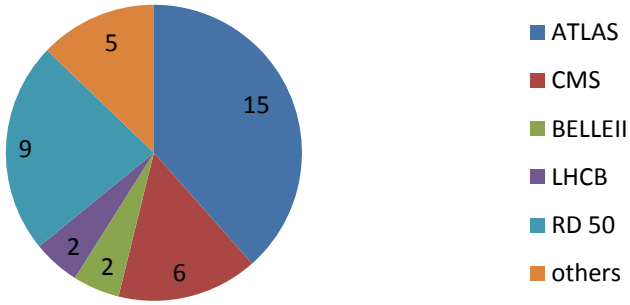

## Irradiation units 2nd year




## 205 Irradiations - 2 years




## 39 Projects - 2 years



# 2013

- 6 approved projects
- 5 projects already completed
- 30 irradiations done

- 190 units remained for next two years (410 used in 2 years)

All "problems" encountered in 2011 solved :
-sometimes activation higher than expected (composition of samples not exactly known)
-shipment of activated devices