



Gamma series of experiments are conducted in the spallation process and the target. The first such experiment (Gamma) is surrounded with 6 cm thick paraffin around the target.

Extended target of lead (diameter 100 mm). The moderator is a block of paraffin irradiated with 2.33 GeV deuterons.

## Parallelization of simulation

### MCNPX

In the MCNPX code version 2.4.0 the parallelization was implemented. MCNPX 2.4.0 was running successfully on our 2 computing servers by connecting the personal computers from our offices to the servers.

The release of MCNPX 2.5.0 code had implemented parallelization for running on our Xeon servers and Beowulf-like clusters.

In 2007, we bought 2 computing servers, each with 4 CPUs (MPICH2 did not work), which was easier and more reliable.

From the end of 2008, we have 8 computing servers. The latest version of MCNPX is running on it.

### FLUKA

FLUKA code does not come with any implementation of parallelization.



Particle fluxes are