

19-April-1999
A.HASEGAWA

SG-4: U-238 Inelastic

Current Status:

Coordinator will be changed from Prof. Y.KANDA to
Prof. M.BABA

Final report: Draft report will be due by September/October 1999.

Progress:

From the committee, this group was ordered to close producing final report within last year. But the manuscript is not yet completed.

There are some reasons:

We had to wait till finalizing of a new evaluation of Maslov.

(Completed March 1999)

The main points of new evaluation :

1. New optical potential,
2. New estimates of direct excitation for octupole and quadrupole bands, obtained using Geel' data above 2 MeV .

Problems solved:

1. Total and 1st level inelastic data consistency,
2. Octupole band levels data description,
3. Better description of capture cross section.

We had to wait nearly one year including new data available:

A New Measurements by TOHOKU (Prof. M.BABA)

Geel's Data

Background:

There are no data in the energy range from 2-4 MeV at the initial stage of this SG. No one can decide the values without reliable measured data considering the observed discrepancies in the big three evaluations. Therefore new measurements was requested to settle the problem.

As a result, after the several years attempts, up to now, several new measurements has been made, especially in Geel (Belgy) and TOHOKU university of JAPAN. Last year, measured data were coming out. These data indicates JENDL evaluation has some points. And from the new evaluation of Maslov, this is an evaluation based on model calculation completely, also support the values. The same situation is found also for several hundreds keV's value. These latest findings, we would like to include in the final report. So please admit to give some time to this subgroup. We would like to finish the final report by this September.