

Conclusions and recommendations

of

Energy and Transmutation of RAW Collaboration workshop

(Řež, 4. – 8. June 2012)

Participants:

J.Adam, P.Chudoba, M.Honusek, M.Kadykov, A.Kugler, M.Majerle, M.Manolopoulou, A.Polanski, A.Sosnin, M.Suchopar, M.Szuta, A.Vishnevsky, V.Wagner, W.Westmeier, N.Zamyatin, L.Závorka, P.Zhivkov, I.Zhuk

Recommendations:

- 1) The proton beam irradiations by means of Nuclotron are very important. We hope that proton beam will be possible to be used during following irradiations. It is necessary to send request for such beam.
- 2) The analysis of obtained data is very important. All results should be sent to M.Kadykov to be accessible for all members of collaboration. Cross check of beam parameters determination and studies of commonly used data are the most important. Please send all your results needed for such common data determination. We need to provide commonly obtained values of beam integrals and beam position and shape.
- 3) The analysis of data obtained from last experiments is necessary to prepare future experiments and publications. The preparation of publications is the most important activity for the nearest period.
- 4) The comparison of experimental data with different Monte Carlo simulations (using different codes/models – MCNPX, Dubna Cascade ...) is very important. The experimental data should be accessible for our simulation groups.
- 5) The very important benchmark set-up is GAMMA-3, completion of standard irradiations through whole possible energy range on Nuclotron is necessary. The proton beam irradiations are the most important. The irradiation by means of Phasotron proton beam with energy 660 MeV will also be very useful if it is possible to carry it out.
- 6) We propose to test during next irradiations of Quinta set-up silicon pin detectors, on the set-up surface at first. Use of such detectors was proposed by N.Zamyatin.
- 7) There are some proposals to change slightly the design of Quinta set-up (for example to replace the seven central uranium rods with uranium cylinder of larger diameter in each section). It is necessary to analyze influence of such changes by means of Monte Carlo simulations and assess feasibility of such modifications.

Written by Vladimir Wagner
12. July 2012