

Jül-Conf-45

C2

I C A N S - V
MEETING OF THE INTERNATIONAL COLLABORATION ON
ADVANCED NEUTRON SOURCES
June 22-26, 1981

Summary on the Workshop Session A-2 Spallation Products

N.F. Peek

There were two papers presented in this session covering the work which has been done by the group at KFA-Jülich. The first paper (Peek) described the radioactive measurements that were made and presented the results from a Pb target (3 cm diameter by 0.1 cm thick) 5 cm deep into a Pb target. A beam distribution experiment using Al plates was described and some results from U measurements were compared to the Pb target measurements. The second paper (Amian) described the computer programs which were used to analyze the data

State of Art:

- Jülich - Data has been (and is being) collected from Pb and U targets, but only about 10% has been analyzed
- Los Alamos - Data was collected from a series of U foils off the central beam axis and analyzed for fission products. More analyser will be performed. (Session A-1)
- Future work - Interest was expressed in having radioactive data from a W target (spallation products and possible fission)

Tasks:

- Jülich - Spallation products have been measured with H^+ at 600 and 1100 MeV on Pb and U targets
- Los Alamos - Spallation products (Mainly fission isotopes) have been measured with H^+ at 800 MeV.
- TRIUMF - It is possible that some measurements will be made with 480 MeV H^+

All three laboratories will compare the data obtained.

Needs:

More data should be analyzed in order to supply the HETC calculations with experimental parameters so that more realistic calculations can be made. It was suggested that results from isotope measurements from ICANS experimental groups be sent to:

N.F. Peek
Physics Dept.
Univ. of Calif.-Davis
Davis, California 95616
U.S.A.

Perhaps the data base can be set up and maintained.