



Oak Ridge National Laboratory
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Subject: Report on Foreign Travel to Vienna IAEA

Date: 07/13/2022

To: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511

From: Marco T. Pigni

Meeting Title: Consultancy Meeting of the International Nuclear Data Evaluation Network (INDEN) on Light Elements

Meeting Location: Vienna

Meeting Date: 20--23 June 2022

Attendees on behalf of NCSP:

Marco T. Pigni

Meeting Purpose:

The purpose of the event is to monitor the progress in the evaluation of (i) Be-7 produced by charged-particle reactions and (ii) the light systems Be-9; N-14,15; O-16; Na-23 relevant for reactor applications.

Meeting Benefits to the NCSP:

Among other light nuclei discussed at the meeting, n+35Cl evaluation in the resolved resonance region is included in the Appendix B. Oak Ridge National Laboratory (ORNL) has been performing work in key nuclear data work areas such as evaluation updates and improvements for light elements, structural materials, and fissile actinides. Marco Pigni's accomplishments in each of these areas is of fundamental important in supporting ORNL programs including NCSP.

Purpose of Travel:

To present recent work on n+35Cl Resolved Resonance Evaluation as well as some advances for inverse channel kinematics as for the n+16O evaluation.

Persons Contacted at Meeting:

Paraskevi Dimitriou (IAEA), Roberto Capote (IAEA), James DeBoer (ND), Helmut Leeb (VUT)

Presentations, Chair Responsibilities, Etc.

Title of presentation: Including inverse channel in n+16O R-matrix evaluation and analysis on the 35Cl(n,p) reaction channel.

Rapporteur duties.

Distribution:

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