

Program

8–12 Nov 2021

IAEA Technical Meeting on (alpha,n) nuclear data evaluation and data needs

Virtual

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Monday 8 November

15:00

Introduction: Welcome-Introduction

Session | Conveners: Arjan KONING, Paraskevi DIMITRIOU

15:20

15:20

Session 1: Presentations

Session

15:20–15:45 **Low-energy cross section measurement of $C^{13}(a,n)O^{16}$**

Speaker

Andreas Best

15:45–16:10 **(a,n) reactions in low-background neutrino experiments**

Speaker

Valentina Lozza

16:10–16:35 **Impact of (a,n) reactions on direct search of Dark Matter**

Speaker

Roberto Santorelli

16:35

16:35

Break

Break

16:40

16:40

Session 1: Presentations

Session

16:40–17:05 **Facilities, Measurements, and Experimental Verification of (α,n) for Dark Matter**

Speaker

Anthony Villano

17:05–17:30

(α, n) Cross Section Data Improvement Needs for Next Generation Low-Background Neutrino and Dark Matter Experiments

Speaker

Juergen Reichenbacher

17:30

Tuesday 9 November

15:00

Session 2: Presentations

Session

15:00–15:25

The MANY project: measurement of neutron yields and spectra from (α ,n) reactions in Spain

Speakers

A. Tarifeno-Saldivia, Ariel Tarifeno-Saldivia

15:25–15:50

Constraining (α ,n) cross sections with indirect measurements

Speaker

Philip Adsley

15:50–16:15

Recommendations from an (α ,n) Nuclear Data Scoping Study

Speaker

Catherine Romano

16:15

16:15

Break

Break

16:25

16:25

Session 2: Presentations

Session

16:25–16:50

(α ,n) neutron yield calculations with NeuCBOT, the Neutron Calculator Based On TALYS

Speaker

Shawn Westerdale

16:50–17:15

TENDL-2021 library for (α ,n) cross sections

Speaker

Arjan KONING

17:15–17:30

(α ,n) cross section needs for fusion

Speaker

Mark Gilbert

17:30

Wednesday 10 November

15:00

Session 3: Presentations

Session

15:00–15:25 **A correction to the non-resonant process for elastic channels in R-matrix analysis**

Speaker

Satoshi Kunieda

15:25–15:50

Preliminary analysis of $^9\text{Be}(\alpha, n)^{12}\text{C}$ integrated and angular experimental differential data at below 4MeV

Speaker

Olivier Bouland

15:50–16:15 **(α, n) data for applications and detector simulation codes**

Speaker

Daniel Cano Ott

16:15

16:15

Break

Break

16:25

16:25

Session 3: Presentations

Session

16:25–16:50 **Calculation of neutron production in (α, n) reactions with SOURCES4**

Speaker

Vitaly Kudryavtsev

16:50–17:15 **HeBGB: the Ohio University Neutron Long Counter**

Speaker

Zach Meisel

17:15

Thursday 11 November

14:00

Session 4: Presentations

Session

14:00–14:25 **A new evaluation of ^{17}O system (preliminary)**

Speaker

Zhenpeng Chen

14:25–14:50

$^{16}\text{O}(n,\alpha)^{13}\text{C}$ Cross Section Normalization based on a new Time-of-Flight measurement using a Frisch Grid Ionisation Chamber.

Speaker

Sebastian Urlass

14:50–15:15

Measurement of the cross section for the $^{13}\text{C}(\alpha,n)^{16}\text{O}$ reaction and determination of the cross section for the $^{16}\text{O}(n,\alpha)^{13}\text{C}$ reaction

Speaker

Pavel Prusachenko

15:15

15:15

Break

Break

15:25

15:25

Session 4: Presentations

Session

15:25–15:50 **First LANSCE result on differential cross sections of the $^{16}\text{O}(n,\alpha)$ reaction**

Speaker

Hye Young Lee

15:50–16:15

(α,n) measurements at University of Notre Dame and AZURE2 R -matrix analyses

Speaker

Richard deBoer

16:15–16:40

R -matrix evaluations of (α,n)

Speaker

Mark Paris

16:40

Friday 12 November

16:25



16:35

Break

Break