

Program

27 November 2023 to 1 December 2023

Technical Meeting on (alpha,n) Reaction Nuclear Data Evaluations and Data Needs

Virtual

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Monday 27 November

15:00

Welcome

Session

15:10

15:10

Status of and perspectives for the study of (α,n) reactions at CNA HISPANOS by means of activation and time-of-flight

Contribution | Speaker: Carlos Guerrero

15:55

15:55

Innovative analysis technique of neutron time-of-flight spectra, validation, and first results in (α,n) reaction studies

Contribution | Speaker: Alberto Pérez de Rada Fiol

16:40

16:40

Status and perspectives of thick target measurement of (α,n) reactions using the miniBELEN detector

Contribution | Speaker: Ariel Tarifeno-Saldivia

17:25

17:25

Preliminary results from thick target measurements of the $^{27}\text{Al}(\alpha,n)^{30}\text{P}$ reaction cross-section using miniBELEN-10A

Contribution | Speaker: Nil Mont i Geli

18:10

Tuesday 28 November

15:00

Measurement of $^{27}\text{Al}(\alpha, n\gamma)^{30}\text{P}$ thick-target yields and total $^{27}\text{Al}(\alpha, n)$ yields by activation

Contribution | Speaker: Luis Mario Fraile

15:45

15:45

Direct measurement of the low-energy cross section of $^{22}\text{Ne}(\alpha, n)^{25}\text{Mg}$

Contribution | Speaker: Andreas Best

16:30

16:30

Neutron production yield in alpha induced reactions on CaF_2 and ^{27}Al

Contribution | Speaker: Dmitry Testov

17:15

17:15

Global R-matrix analysis of the $^{19}\text{F}(\alpha, n)$ reaction

Contribution | Speaker: Eleni Vagena

18:00

18:00

Overview of the (α, n) reaction measurements on light nuclei

Contribution | Speaker: Hye Young Lee

18:45

Wednesday 29 November

15:00

Improved evaluation of the 17O system

Contribution | Speaker: XU Han

15:45

15:45

Experimental study of thick target yield from the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction

Contribution | Speaker: Pavel Prusachenko

16:30

16:30

Determination of the stopping power for alpha particles in carbon using resonant scattering

Contribution | Speaker: Timofey Bobrovskiy

17:15

17:15

Uncertainty quantification in R-matrix analyses using Bayesian methods

Contribution | Speaker: Daniel Phillips

18:00

18:00

Refining the low energy R -matrix fit of $^{13}\text{C}(\alpha, n)^{16}\text{O}$

Contribution | Speaker: Richard deBoer

18:45

Thursday 30 November

15:00

(α , n) neutron yields for rare-event search experiments: a collaborative effort to understand the backgrounds.

Contribution | Speaker: Roberto Santorelli

15:45

15:45

Neutron yield calculation for (α ,n) reactions with SOURCES4

Contribution | Speaker: Mihaela Parvu

16:30

16:30

Updates to the NeuCBOT tool for (α , n) calculations

Contribution | Speaker: Shawn Westerdale

17:15

17:15

Preliminary study of uncertainties on (α ,n) cross sections with TALYS

Contribution | Speaker: Holger Kluck

17:30

17:30

Short presentation of modernised Stopping Power Database

Contribution | Speaker: Paraskevi DIMITRIOU

17:40

Friday 1 December

15:00



17:00

Discussion-recommendations

Session

17:00



17:10

Closing

Session