

List of Articles

F. García-Infantes et al., „*Measurement of the $^{176}\text{Yb}(n,\gamma)$ cross section at the n_TOF facility at CERN*”, Physical Review C 110, 064619 (2024)

N.V. Sosnin et al., “*Measurement of the $^{78}\text{Se}(n,\gamma)^{79}\text{Se}$ cross section up to 600 keV at the n_TOF facility at CERN*”, Phys. Rev. C 110, 065805 (2024)

A. Manna, et al., “*New insights on fission of ^{235}U induced by high energy neutrons from a new measurement at n_TOF* ”, Physics Letters B 860, 139213 (2025)

J. Balibrea-Correa, et al., “*Towards a new generation of solid total-energy detectors for neutron-capture time-of-flight experiments with intense neutron beams*”, Nuclear Instruments and Methods in Physics Research Section A 1072, 170110 (2025)

P. Žugec, et al., “*Measurement of the $\text{natC}(n,p)$ and $\text{natC}(n,d)$ reactions from n_TOF at CERN*”, Physics Letters B 868, 139713 (2025)

N. Patronis, et al., “*The CERN n_TOF NEAR station for astrophysics-and application-related neutron activation measurements*”, The European Physical Journal A 61, 215 (2025)

C. Domingo-Pardo, et al., “*Neutron capture measurements for s -process nucleosynthesis: A review about CERN n_TOF developments and contributions*”, The European Physical Journal A 61, 105 (2025)

V. Michalopoulou, et al., “*Measurement of the ^{235}U fission cross section relative to the standard $^{10}\text{B}(n,\alpha)$ reaction at the CERN n_TOF facility: Results for $E_n < 2$ eV*”, Applied Radiation and Isotopes 226, 112063 (2025)

P.M. Milazzo, et al., “*The Nuclear Astrophysics Program at the CERN n_TOF Facility: Results and Perspectives*”, Universe 11, 329 (2025)

J.A. Pavon-Rodriguez, et al. “*Characterisation of the neutron beam in the n_TOF -EAR2 experimental area at CERN following the spallation target upgrade*”, Accepted for publication in The European Physical Journal A, 29th October (2025)

J. Lerendegui-Marco, et al. “*Recent highlights and prospects on (n,γ) measurements at the CERN n_TOF facility*”, EPJ Web of Conferences 329, 3003 (2025)

L. Cosentino, et al. “*The n_ToF facility for Nuclear Astrophysics*”, EPJ Web of Conferences 331, 1002 (2025)

Presentations by the Romanian group members

M. Birch, C. Petrone, M. Bacak, T. Wright, M. Boromiza, C. Neacsu, G. Lorusso and the n_TOF Collaboration, *"Status of $^{24}\text{Mg}(n, n'\gamma)$ Analysis & Beyond"*, n_TOF Collaboration Meeting, Padua, 27-28 November 2024.

M. Bacak, C. Petrone, M. Boromiza, A. Negret, and the n_TOF Collaboration, *"Developments and future prospects for neutron induced inelastic cross section measurements at CERN n_TOF"* Nuclear Data Conference (ND2025), Madrid (Spain), 22-27 June 2025

M. Birch, C. Petrone, M. Boromiza, A. Negret, and the n_TOF Collaboration, *" $^{24}\text{Mg}(n, n')$ measurement at n_TOF, CERN"* Nuclear Data Conference (ND2025), Madrid (Spain), 22-27 June 2025

A. Gandhi., et al., *"Data cross-checks and (very) preliminary results of the $^{124}\text{Sn}(n, \gamma)$ campaign @ EAR2"*, n_TOF Collaboration Meeting, CERN, 22-23 May 2025

C. Petrone., et al., *"(New Proposal) Measurement of the α 1-branch of $^{10}\text{B}(n, \alpha)$ reaction at n_TOF"* n_TOF Collaboration Board Meeting, CERN, 26 September 2025

A. Gandhi., et al, *"Tin-Tin Analysis: Part 2, The neutron capture cross section of ^{124}Sn and its impact on neutrinoless double β decay searches"*, to be presented at n_TOF Collaboration Meeting, CERN, 10-12 December 2025

A. Cristescu., et al., *" $^{28}\text{Si}(n, n')$ measurement at n_TOF, CERN"*, to be presented at n_TOF Collaboration Meeting, CERN, 10-12 December 2025