

## Neutrino group publications (July 2012–November 2014)

- [1] K. Abe, N. Abgrall, Y. Ajima, H. Aihara, J.B. Albert, *et al.*, “Measurements of the T2K neutrino beam properties using the INGRID on-axis near detector,” *Nucl.Instrum.Meth.* **A694**, 211–223 (2012), [arXiv:1111.3119 \[physics.ins-det\]](#)
- [2] K. Abe *et al.* (T2K), “First Muon-Neutrino Disappearance Study with an Off-Axis Beam,” *Phys.Rev.* **D85**, 031103 (2012), [arXiv:1201.1386 \[hep-ex\]](#)
- [3] K. Abe *et al.* (T2K), “Evidence of Electron Neutrino Appearance in a Muon Neutrino Beam,” *Phys.Rev.* **D88**, 032002 (2013), [arXiv:1304.0841 \[hep-ex\]](#)
- [4] K. Abe *et al.* (T2K), “Measurement of Neutrino Oscillation Parameters from Muon Neutrino Disappearance with an Off-axis Beam,” *Phys.Rev.Lett.* **111**, 211803 (2013), [arXiv:1308.0465 \[hep-ex\]](#)
- [5] K. Abe *et al.* (T2K), “Measurement of the inclusive  $\nu_\mu$  charged current cross section on carbon in the near detector of the T2K experiment,” *Phys.Rev.* **D87**, 092003 (2013), [arXiv:1302.4908 \[hep-ex\]](#)
- [6] K. Abe *et al.* (T2K), “T2K neutrino flux prediction,” *Phys.Rev.* **D87**, 012001 (2013), [arXiv:1211.0469 \[hep-ex\]](#)
- [7] K. Abe *et al.* (T2K), “Measurement of the intrinsic electron neutrino component in the T2K neutrino beam with the ND280 detector,” *Phys.Rev.* **D89**, 092003 (2014), [arXiv:1403.2552 \[hep-ex\]](#)
- [8] K. Abe *et al.* (T2K), “Measurement of the neutrino-oxygen neutral-current interaction cross section by observing nuclear deexcitation  $\gamma$  rays,” *Phys.Rev.* **D90**, 072012 (2014), [arXiv:1403.3140 \[hep-ex\]](#)
- [9] K. Abe *et al.* (T2K), “Measurement of the inclusive  $\nu_\mu$  charged current cross section on iron and hydrocarbon in the T2K on-axis neutrino beam,” *Phys.Rev.* **D90**, 052010 (2014), [arXiv:1407.4256 \[hep-ex\]](#)
- [10] K. Abe *et al.* (T2K), “Observation of Electron Neutrino Appearance in a Muon Neutrino Beam,” *Phys.Rev.Lett.* **112**, 061802 (2014), [arXiv:1311.4750 \[hep-ex\]](#)
- [11] K. Abe *et al.* (T2K), “Precise Measurement of the Neutrino Mixing Parameter  $\theta_{23}$  from Muon Neutrino Disappearance in an Off-Axis Beam,” *Phys.Rev.Lett.* **112**, 181801 (2014), [arXiv:1403.1532 \[hep-ex\]](#)
- [12] K. Abe *et al.* (T2K), “Measurement of the Inclusive Electron Neutrino Charged Current Cross Section on Carbon with the T2K Near Detector,” *Phys.Rev.Lett.* **113**, 241803 (2014), [arXiv:1407.7389 \[hep-ex\]](#)
- [13] S.K. Agarwalla *et al.* (LAGUNA-LBNO), “The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment,” *JHEP* **1405**, 094 (2014), [arXiv:1312.6520 \[hep-ph\]](#)
- [14] N. Abgrall *et al.* (NA61/SHINE), “Measurement of Production Properties of Positively Charged Kaons in Proton-Carbon Interactions at 31 GeV/c,” *Phys.Rev.* **C85**, 035210 (2012), [arXiv:1112.0150 \[hep-ex\]](#)
- [15] N. Abgrall *et al.* (NA61/SHINE), “Pion emission from the T2K replica target: method, results and application,” *Nucl.Instrum.Meth.* **A701**, 99–114 (2013), [arXiv:1207.2114 \[hep-ex\]](#)
- [16] N. Abgrall *et al.* (NA61), “NA61/SHINE facility at the CERN SPS: beams and detector system,” *JINST* **9**, P06005 (2014), [arXiv:1401.4699 \[physics.ins-det\]](#)
- [17] N. Abgrall *et al.* (NA61/SHINE), “Measurement of negatively charged pion spectra in inelastic p+p interactions at  $p_{lab} = 20, 31, 40, 80$  and  $158$  GeV/c,” *Eur.Phys.J.* **C74**, 2794 (2014), [arXiv:1310.2417 \[hep-ex\]](#)

- [18] N. Abgrall *et al.* (NA61/SHINE), “Measurements of production properties of  $K_S^0$  mesons and  $\Lambda$  hyperons in proton-carbon interactions at 31 GeV/ c,” *Phys.Rev.* **C89**, 025205 (2014), [arXiv:1309.1997 \[physics.acc-ph\]](#)
- [19] O. Samoylov *et al.* (NOMAD), “A Precision Measurement of Charm Dimuon Production in Neutrino Interactions from the NOMAD Experiment,” *Nucl.Phys.* **B876**, 339–375 (2013), [arXiv:1308.4750 \[hep-ex\]](#)