

Neutrino group publications (January 2015-June 2017)

T2K

- [1] K. Abe et al. (T2K Collaboration). “Combined Analysis of Neutrino and Antineutrino Oscillations at T2K”. *Phys. Rev. Lett.* 118.15 (2017), p. 151801. arXiv: [1701.00432 \[hep-ex\]](#).
- [2] K. Abe et al. (T2K Collaboration). “First measurement of the muon neutrino charged current single pion production cross section on water with the T2K near detector”. *Phys. Rev.* D95.1 (2017), p. 012010. arXiv: [1605.07964 \[hep-ex\]](#).
- [3] K. Abe et al. (T2K Collaboration). “Measurement of $\bar{\nu}_\mu$ and ν_μ charged current inclusive cross sections and their ratio with the T2K off-axis near detector” (2017). arXiv: [1706.04257 \[hep-ex\]](#).
- [4] K. Abe et al. (T2K Collaboration). “Measurement of the single π^0 production rate in neutral current neutrino interactions on water” (2017). arXiv: [1704.07467 \[hep-ex\]](#).
- [5] K. Abe et al. (T2K Collaboration). “Search for Lorentz and CPT violation using sidereal time dependence of neutrino flavor transitions over a short baseline” (2017). arXiv: [1703.01361 \[hep-ex\]](#).
- [6] K. Abe et al. (T2K Collaboration). “Updated T2K measurements of muon neutrino and antineutrino disappearance using 1.5×10^{21} protons on target” (2017). arXiv: [1704.06409 \[hep-ex\]](#).
- [7] K. Abe et al. (T2K Collaboration). “Measurement of Coherent π^+ Production in Low Energy Neutrino-Carbon Scattering”. *Phys. Rev. Lett.* 117.19 (2016), p. 192501. arXiv: [1604.04406 \[hep-ex\]](#).
- [8] K. Abe et al. (T2K Collaboration). “Measurement of double-differential muon neutrino charged-current interactions on C_8H_8 without pions in the final state using the T2K off-axis beam”. *Phys. Rev.* D93.11 (2016), p. 112012. arXiv: [1602.03652 \[hep-ex\]](#).
- [9] K. Abe et al. (T2K Collaboration). “Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam”. *Phys. Rev. Lett.* 116.18 (2016), p. 181801. arXiv: [1512.02495 \[hep-ex\]](#).
- [10] K. Abe et al. (T2K Collaboration). “Measurement of the muon neutrino inclusive charged-current cross section in the energy range of 1–3 GeV with the T2K INGRID detector”. *Phys. Rev.* D93.7 (2016), p. 072002. arXiv: [1509.06940 \[hep-ex\]](#).
- [11] K. Abe et al. (T2K Collaboration). “Proposal for an Extended Run of T2K to 20×10^{21} POT” (2016). arXiv: [1609.04111 \[hep-ex\]](#).
- [12] K. Abe et al. (T2K Collaboration). “Sensitivity of the T2K accelerator-based neutrino experiment with an Extended run to 20×10^{21} POT” (2016). arXiv: [1607.08004 \[hep-ex\]](#).
- [13] K. Abe et al. (T2K Collaboration). “Upper bound on neutrino mass based on T2K neutrino timing measurements”. *Phys. Rev.* D93.1 (2016), p. 012006. arXiv: [1502.06605 \[hep-ex\]](#).
- [14] K. Abe et al. (T2K Collaboration). “Measurement of the ν_μ charged current quasielastic cross section on carbon with the T2K on-axis neutrino beam”. *Phys. Rev.* D91.11 (2015), p. 112002. arXiv: [1503.07452 \[hep-ex\]](#).
- [15] K. Abe et al. (T2K Collaboration). “Measurement of the electron neutrino charged-current interaction rate on water with the T2K ND280 π^0 detector”. *Phys. Rev.* D91 (2015), p. 112010. arXiv: [1503.08815 \[hep-ex\]](#).
- [16] K. Abe et al. (T2K Collaboration). “Measurements of neutrino oscillation in appearance and disappearance channels by the T2K experiment with 6.6×10^{20} protons on target”. *Phys. Rev.* D91.7 (2015), p. 072010. arXiv: [1502.01550 \[hep-ex\]](#).

NA61/SHINE

- [1] A. Aduszkiewicz et al. (NA61/SHINE Collaboration). “Measurement of Meson Resonance Production in π^-+C Interactions at SPS energies” (2017). arXiv: [1705.08206 \[nucl-ex\]](#).

- [2] A. Aduszkiewicz et al. (NA61/SHINE Collaboration). “Measurements of π^\pm , K^\pm , p and \bar{p} spectra in proton-proton interactions at 20, 31, 40, 80 and 158 GeV/c with the NA61/SHINE spectrometer at the CERN SPS”. *Submitted to: Eur. Phys. J. C* (2017). arXiv: [1705.02467 \[nucl-ex\]](#).
- [3] A. Aduszkiewicz et al. (NA61/SHINE Collaboration). “Two-particle correlations in azimuthal angle and pseudorapidity in inelastic p + p interactions at the CERN Super Proton Synchrotron”. *Eur. Phys. J. C* 77.2 (2017), p. 59. arXiv: [1610.00482 \[nucl-ex\]](#).
- [4] N. Abgrall et al. (NA61/SHINE Collaboration). “Measurements of π^\pm differential yields from the surface of the T2K replica target for incoming 31 GeV/c protons with the NA61/SHINE spectrometer at the CERN SPS”. *Eur. Phys. J. C* 76.11 (2016), p. 617. arXiv: [1603.06774 \[hep-ex\]](#).
- [5] N. Abgrall et al. (NA61/SHINE Collaboration). “Measurements of π^\pm , K^\pm , K_S^0 , Λ and proton production in proton-carbon interactions at 31 GeV/c with the NA61/SHINE spectrometer at the CERN SPS”. *Eur. Phys. J. C* 76.2 (2016), p. 84. arXiv: [1510.02703 \[hep-ex\]](#).
- [6] A. Aduszkiewicz et al. (NA61/SHINE Collaboration). “Multiplicity and transverse momentum fluctuations in inelastic proton-proton interactions at the CERN Super Proton Synchrotron”. *Eur. Phys. J. C* 76.11 (2016), p. 635. arXiv: [1510.00163 \[hep-ex\]](#).
- [7] A. Aduszkiewicz et al. (NA61/SHINE Collaboration). “Production of Λ -hyperons in inelastic p+p interactions at 158 GeV/c”. *Eur. Phys. J. C* 76.4 (2016), p. 198. arXiv: [1510.03720 \[hep-ex\]](#).