

Publication List

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I am an author on 326 published articles and citations in inSPIRE HEP indicate an h-index of 78 [inSPIRE HEP, October 2018]. A selected list of publications and internal notes is given below, followed by a complete list of publications.

Selected Publications

‘Search for CP violation in Neutrino and Antineutrino Oscillations by the T2K experiment with 2.2×10^{21} protons on target’ [1]

- This publication has been accepted by Physical Review Letters as an editor’s suggestion and is currently available at arXiv:1807.07891

‘Measurement of neutrino and antineutrino oscillations by the T2K experiment including a new additional sample of ν_e interactions at the far detector’ [2]

‘Updated T2K measurements of muon neutrino and antineutrino disappearance using 1.5×10^{21} protons on target’ [3]

‘Vector Boson Fusion Searches for Dark Matter at the LHC’ [4]

‘Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$, and 13 TeV’ [5]

‘Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes’ [6]

Internal Notes and Technical Reports

T2K technical notes (TNs) are available on request from T2K collaboration spokespeople. CMS physics analysis summaries (PASs) are available on the CERN document server cds.cern.ch.

‘MaCh3 Run 1-9 Joint Analysis 2018’ T2K-TN-350

‘MaCh3 Run 1-8 Joint Analysis’ T2K-TN-320

‘Bi-probability plots with an extra degree of freedom using MaCh3’ T2K-TN-363

‘NIWG model and uncertainties for 2017 oscillation analysis’ T2K-TN-315

‘MaCh3 joint ND+SK, $1R\mu + 1Re$ fit with SK ν_e CC- $1\pi^+$ sample’ T2K-TN-300

‘MaCh3 Run 1-7 Joint Analysis’ T2K-TN-269

‘A combination of searches for the invisible decays of the Higgs boson using the CMS detector’ CMS-PAS-HIG-15-012

‘Search for invisible decays of Higgs bosons in the vector boson fusion production mode’ CMS-PAS-HIG-14-038

‘Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes’ CMS-PAS-HIG-13-030

‘Search for invisible decays of Higgs bosons in the VBF channel’ CMS-PAS-HIG-13-013

All Publications

- [1] K. Abe *et al.*, “Search for CP violation in Neutrino and Antineutrino Oscillations by the T2K experiment with 2.2×10^{21} protons on target,” 2018.
- [2] K. Abe *et al.*, “Measurement of neutrino and antineutrino oscillations by the T2K experiment including a new additional sample of ν_e interactions at the far detector,” *Phys. Rev.*, vol. D96, no. 9, p. 092006, 2017. [Erratum: *Phys. Rev.* D98, no. 1, 019902(2018)].
- [3] K. Abe *et al.*, “Updated T2K measurements of muon neutrino and antineutrino disappearance using 1.5×10^{21} protons on target,” *Phys. Rev.*, vol. D96, no. 1, p. 011102, 2017.
- [4] J. Brooke, M. R. Buckley, P. Dunne, B. Penning, J. Tamasas, and M. Zgubic, “Vector Boson Fusion Searches for Dark Matter at the LHC,” *Phys. Rev.*, vol. D93, no. 11, p. 113013, 2016.
- [5] V. Khachatryan *et al.*, “Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$, and 13 TeV,” *JHEP*, vol. 02, p. 135, 2017.
- [6] S. Chatrchyan *et al.*, “Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes,” *Eur. Phys. J.*, vol. C74, p. 2980, 2014.
- [7] A. M. Sirunyan *et al.*, “Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions,” *Phys. Rev.*, vol. C98, no. 4, p. 044902, 2018.
- [8] K. Abe *et al.*, “Characterization of nuclear effects in muon-neutrino scattering on hydrocarbon with a measurement of final-state kinematics and correlations in charged-current pionless interactions at T2K,” *Phys. Rev.*, vol. D98, no. 3, p. 032003, 2018.
- [9] K. Abe *et al.*, “Measurement of inclusive double-differential ν_μ charged-current cross section with improved acceptance in the T2K off-axis near detector,” *Phys. Rev.*, vol. D98, p. 012004, 2018.
- [10] K. Abe *et al.*, “Physics potentials with the second Hyper-Kamiokande detector in Korea,” *PTEP*, vol. 2018, no. 6, p. 063C01, 2018.
- [11] A. M. Sirunyan *et al.*, “Measurement of normalized differential $t\bar{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV,” *JHEP*, vol. 04, p. 060, 2018.
- [12] A. M. Sirunyan *et al.*, “Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV,” *Phys. Lett.*, vol. B779, pp. 166–190, 2018.

- [13] A. M. Sirunyan *et al.*, “Measurement of associated $Z + \text{charm}$ production in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$,” *Eur. Phys. J.*, vol. C78, no. 4, p. 287, 2018.
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- [15] A. M. Sirunyan *et al.*, “Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8 \text{ TeV}$,” *JHEP*, vol. 03, p. 167, 2018.
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- [17] K. Abe *et al.*, “Measurement of the single π^0 production rate in neutral current neutrino interactions on water,” *Phys. Rev.*, vol. D97, no. 3, p. 032002, 2018.
- [18] A. M. Sirunyan *et al.*, “Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s} = 13 \text{ TeV}$,” *Phys. Lett.*, vol. B776, pp. 355–378, 2018.
- [19] A. M. Sirunyan *et al.*, “Azimuthal anisotropy of charged particles with transverse momentum up to $100\text{GeV}/c$ in PbPb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$,” *Phys. Lett.*, vol. B776, pp. 195–216, 2018.
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