

Curriculum Vitae

Camillo Mariani
Associate Professor of Physics
Virginia Tech

Contact Information

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Education and Training

University of Rome "Sapienza"	Physics	B.S.	2003
University of Rome "Sapienza"	Physics	M.S.	2003
University of Rome "Sapienza"	Physics	Ph.D	2008
Columbia University	Physics	Postdoctoral training	2008-2012

Research and Professional Experience

2021-present:	Professor,	Virginia Tech
2018-2021:	Associate Professor,	Virginia Tech
2016-2018:	Associate Professor and Associate Chair,	Virginia Tech
2012-2016:	Assistant Professor,	Virginia Tech

Honors and Award

2014-2019:	NSF CAREER Award - Neutrino Interactions in Matter
2018:	Breakthrough Prize in High Energy physics for the discovery of neutrino oscillation to the K2K and T2K experiments

Service

Director Graduate Program Physics Department	present
Director QuarkNET center Virginia Tech	present
Director NSF REU Physics	present
Associate chair for Infrastructure	2016-2018
Colloquium Committee	2016-present
Executive Committee Physics Department	2015-2018
P&T Committee Physics Department	2017-2018
Space and Safety Committee Chair	2016-2018
Director of Kimballton Underground Facility	2017-present
Grant Review Panelist for DOE and NSF (PHYS)	2018-present
Grant Reviewer for funding agencies: DOE and NSF	2018-present

Teaching and Advising

PHYS 4455-4456 - Introduction to Quantum Mechanics I & II	2012-2015
PHYS 2305 - Foundation of Physics	2015-present
PHYS 2074 - Highlights of Modern Physics	2015-2018
PHYS 5944 - Graduate Student Seminar	2018-present
PHYS 4316 - Modern Experimental Physics	2016-present

PhD Theses:

Evan Guarnaccia (2014), Hongxia Dai (2019), Matt Murphy (2020), Linjie Gu (2021)

Current PhD Students:

A. Campos

Postdoctoral Fellows (current):

Libo Jiang (visiting), Matt Murphy

Postdoctoral Fellows (past):

L. Kalousis(2012-2015), C.M. Chen(2013-2016),
A. Ankowski(2014-2016) and V. Pandey(2016-2018)

Invited Research Talks

Prior 2009:

K2K Recent Results 2004, XLth Rencontres de Moriond, La Thuile, IT
Review of K2K Recent Results, 2007, NuFact07, Okayama, Japan
Double Chooz experiment - status and prospective, NuFact09, IIT Chicago, IL, USA

2010:

Review of LBNE experiment, 2010, NOW2010, Otranto, IT
Review of reactor neutrino experiments, 2010, NOW2010, Otranto, IT

- 2011:
 SciBooNE Recent Results, 2011, NuFact11, Universite of Geneve and CERN, CH
 Double Chooz First Results, 2011, ASPEN 2011, HEP physics meeting, ASPEN, CO, USA
- 2013:
 GENIE - Nuclear model and future, 2013, Neutrino cross sections and nuclear model
 Workshop at University of Pittsburg, Pittsburg, PA, USA
 Review of Neutrino cross-sections on free and bound nuclei, 2013, SLAC, Stanford, CA, USA
 Double Chooz review of recent results, 2013, TAUP2013, Asilomar, Ca, USA
 Neutrino Interactions with Nucleons and Nuclei, 2013, IIT Workshop
 University of Washington, Seattle, WA, USA
- 2014:
 Neutrino Interactions with Nucleons and Nuclei, 2014, Supernovae Workshop
 and nuclear model, Okayama University, Okayama, Japan
- 2015:
 Seminar HEP, Nuclear models and impact on the determination of neutrino oscillation parameters,
 University of Rome Sapienza,
 Colloquium, Nuclear models and impact on the determination of neutrino oscillation parameters,
 Argonne National Lab
 Colloquium, Nuclear models and impact on the determination of neutrino oscillation parameters,
 University of South Carolina
- 2016:
 Solid/CHANDLER experiment at the BR2 reactor. Sapienza, University of Rome, Rome.(Seminar)
 Solid/CHANDLER experiment at the BR2 reactor. In Lepton-Nucleus Scattering
 XIV. Marciana Marina, Isola D'Elba.(Abstract, Paper)
 SuperNovae DUNE. In C. Mariani (Ed.), SuperNovae @ DUNE. Virginia Tech.(Workshop)
 INT workshop in Seattle in on neutrino-nucleus scattering and effects on oscillation analysis
 NuPHYS workshop in UK on neutrino-nucleus scattering and effects on oscillation analysis
- 2017:
 Argon Experiment at Jefferson Lab, invited plenary talk at Nuint17, CANADA
 Talk on Mini CHANDLER status and new results at AAP17 held in India, Mumbai
 Colloquium in Rome Sapienza about the new MiniCHANDLER results, Rome, Italy
 Colloquium at UVA on MiniCHANDLER and CHANDLER status and prospective
- 2018:
 Particle Seminar at Jefferson Lab
 Colloquium at University of Alabama
 Particle Seminar at StonyBrook
 Lecture on neutrino cross section for the Summer Institute at Fermilab
 Invited parallel talk at SESAPS meeting in Knoxville, TN, November 2018
- 2019:
 Electron neutrino scattering. In Lepton-Nucleus Scattering, Marciana Marina, Isola D'Elba.
 Electron and neutrino scattering CERN part of the PLAFOND workshop series

2020:

JLab E12-14-012 exclusive analysis, NDNN Workshop
Jefferson Lab seminar on new results from E12-14-012 experiment

2021:

JLab E12-14-012 exclusive analysis
NuFACT

Peer Reviewed Publications

107 publications with over 14,595 citations (google scholar) - h-index of 52 on 12/13/2021

1. A. A. Abud *et al.* [DUNE], JCAP **10**, 065 (2021) doi:10.1088/1475-7516/2021/10/065 [arXiv:2107.09109 [hep-ex]].
2. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. Lett. **127**, no.15, 151803 (2021) doi:10.1103/PhysRevLett.127.151803 [arXiv:2106.00568 [hep-ex]].
3. P. Abratenko *et al.* [MicroBooNE], JINST **16**, no.09, P09025 (2021) doi:10.1088/1748-0221/16/09/P09025 [arXiv:2104.06551 [physics.ins-det]].
4. A. Paolone, E. Placidi, E. Stellino, M. G. Betti, E. Majorana, C. Mariani, A. Nucara, O. Palumbo, P. Postorino and I. Rago, *et al.* J. Noncryst. Solids **557**, 120651 (2021) doi:10.1016/j.jnoncrsol.2021.120651
5. A. Abed Abud *et al.* [DUNE], Instruments **5**, no.4, 31 (2021) doi:10.3390/instruments5040031 [arXiv:2103.13910 [physics.ins-det]].
6. K. Abe *et al.* [Hyper-Kamiokande], Astrophys. J. **916**, no.1, 15 (2021) doi:10.3847/1538-4357/abf7c4 [arXiv:2101.05269 [astro-ph.IM]].
7. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. Applied **15**, no.6, 064071 (2021) doi:10.1103/PhysRevApplied.15.064071 [arXiv:2101.05076 [physics.ins-det]].
8. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. D **104**, no.5, 052002 (2021) doi:10.1103/PhysRevD.104.052002 [arXiv:2101.04228 [hep-ex]].
9. P. Abratenko *et al.* [MicroBooNE], JINST **16**, no.04, P04004 (2021) doi:10.1088/1748-0221/16/04/P04004 [arXiv:2012.14324 [physics.ins-det]].
10. L. Gu *et al.* [Jefferson Lab Hall A], Phys. Rev. C **103**, no.3, 034604 (2021) doi:10.1103/PhysRevC.103.034604 [arXiv:2012.11466 [nucl-ex]].
11. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. D **103**, no.5, 052012 (2021) doi:10.1103/PhysRevD.103.052012 [arXiv:2012.08513 [physics.ins-det]].
12. P. Abratenko *et al.* [MicroBooNE], JINST **16**, no.06, P06043 (2021) doi:10.1088/1748-0221/16/06/P06043 [arXiv:2011.01375 [physics.ins-det]].
13. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. D **103**, no.9, 092003 (2021) doi:10.1103/PhysRevD.103.092003 [arXiv:2010.08653 [hep-ex]].
14. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. D **102**, no.11, 112013 (2020) doi:10.1103/PhysRevD.102.112013 [arXiv:2010.02390 [hep-ex]].
15. T. Abrahão *et al.* [Double Chooz], Eur. Phys. J. C **81**, no.8, 775 (2021) doi:10.1140/epjc/s10052-021-09459-0 [arXiv:2009.05515 [hep-ex]].
16. P. Abratenko *et al.* [MicroBooNE], JINST **16**, no.02, P02008 (2021) doi:10.1088/1748-

- 0221/16/02/P02008 [arXiv:2008.13761 [physics.ins-det]].
17. B. Abi *et al.* [DUNE], *Eur. Phys. J. C* **81**, no.4, 322 (2021) doi:10.1140/epjc/s10052-021-09007-w [arXiv:2008.12769 [hep-ex]].
 18. P. Abratenko *et al.* [MicroBooNE], *JINST* **15**, no.12, P12037 (2020) doi:10.1088/1748-0221/15/12/P12037 [arXiv:2008.09765 [physics.ins-det]].
 19. A. Apponi, G. Cavoto, M. Iannone, C. Mariani, F. Pandolfi, D. Paoloni, I. Rago and A. Ruocco, *JINST* **15**, no.11, P11015 (2020) doi:10.1088/1748-0221/15/11/P11015 [arXiv:2008.07169 [physics.ins-det]].
 20. B. Abi *et al.* [DUNE], *Eur. Phys. J. C* **81**, no.5, 423 (2021) doi:10.1140/epjc/s10052-021-09166-w [arXiv:2008.06647 [hep-ex]].
 21. T. Abrahão *et al.* [Double Chooz], *JHEP* **01**, 190 (2021) doi:10.1007/JHEP01(2021)190 [arXiv:2007.13431 [hep-ex]].
 22. B. Abi *et al.* [DUNE], *JINST* **15**, no.12, P12004 (2020) doi:10.1088/1748-0221/15/12/P12004 [arXiv:2007.06722 [physics.ins-det]].
 23. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], *Phys. Rev. D* **103**, no.5, 052002 (2021) doi:10.1103/PhysRevD.103.052002 [arXiv:2006.16883 [hep-ex]].
 24. B. Abi *et al.* [DUNE], *Phys. Rev. D* **102**, no.9, 092003 (2020) doi:10.1103/PhysRevD.102.092003 [arXiv:2006.15052 [physics.ins-det]].
 25. B. Abi *et al.* [DUNE], *Eur. Phys. J. C* **80**, no.10, 978 (2020) doi:10.1140/epjc/s10052-020-08456-z [arXiv:2006.16043 [hep-ex]].
 26. P. Abratenko *et al.* [MicroBooNE], *Phys. Rev. Lett.* **125**, no.20, 201803 (2020) doi:10.1103/PhysRevLett.125.201803 [arXiv:2006.00108 [hep-ex]].
 27. P. Abratenko *et al.* [MicroBooNE], *JINST* **16**, no.02, P02017 (2021) doi:10.1088/1748-0221/16/02/P02017 [arXiv:2002.09375 [physics.ins-det]].
 28. R. Acciarri *et al.* [SBND], *JINST* **15**, no.06, P06033 (2020) doi:10.1088/1748-0221/15/06/P06033 [arXiv:2002.08424 [physics.ins-det]].
 29. B. Abi *et al.* [DUNE], *JINST* **15**, no.08, T08009 (2020) doi:10.1088/1748-0221/15/08/T08009 [arXiv:2002.03008 [physics.ins-det]].
 30. B. Abi *et al.* [DUNE], *JINST* **15**, no.08, T08008 (2020) doi:10.1088/1748-0221/15/08/T08008 [arXiv:2002.02967 [physics.ins-det]].
 31. B. Abi *et al.* [DUNE], *JINST* **15**, no.08, T08010 (2020) doi:10.1088/1748-0221/15/08/T08010 [arXiv:2002.03010 [physics.ins-det]].
 32. P. Abratenko *et al.* [MicroBooNE], *Phys. Rev. D* **101**, no.5, 052001 (2020) doi:10.1103/PhysRevD.101.052001 [arXiv:1911.10545 [hep-ex]].
 33. C. Adams *et al.* [MicroBooNE], *JINST* **15**, no.02, P02007 (2020) doi:10.1088/1748-0221/15/02/P02007 [arXiv:1910.02166 [hep-ex]].
 34. C. Adams *et al.* [MicroBooNE], *JINST* **15**, no.07, P07010 (2020) doi:10.1088/1748-0221/15/07/P07010 [arXiv:1910.01430 [physics.ins-det]].
 35. M. Murphy, H. Dai, L. Gu, D. Abrams, A. M. Ankowski, B. Aljawrneh, S. Alsalmi, J. Bane, S. Barcus and O. Benhar, *et al.* *Phys. Rev. C* **100**, no.5, 054606 (2019) doi:10.1103/PhysRevC.100.054606 [arXiv:1908.01802 [hep-ex]].
 36. C. Adams *et al.* [MicroBooNE], *JINST* **15**, no.03, P03022 (2020) doi:10.1088/1748-0221/15/03/P03022

- [arXiv:1907.11736 [physics.ins-det]].
37. P. Abratenko *et al.* [MicroBooNE], Phys. Rev. Lett. **123**, no.13, 131801 (2019) doi:10.1103/PhysRevLett.123.131801 [arXiv:1905.09694 [hep-ex]].
 38. M. G. Betti *et al.* [PTOLEMY], JCAP **07**, 047 (2019) doi:10.1088/1475-7516/2019/07/047 [arXiv:1902.05508 [astro-ph.CO]].
 39. H. de Kerret *et al.* [Double Chooz], Nature Phys. **16**, no.5, 558-564 (2020) doi:10.1038/s41567-020-0831-y [arXiv:1901.09445 [hep-ex]].
 40. C. Adams *et al.* [MicroBooNE], JINST **14**, no.04, P04004 (2019) doi:10.1088/1748-0221/14/04/P04004 [arXiv:1901.02862 [physics.ins-det]].
 41. C. Adams *et al.* [MicroBooNE], Eur. Phys. J. C **79**, no.8, 673 (2019) doi:10.1140/epjc/s10052-019-7184-7 [arXiv:1812.05679 [physics.ins-det]].
 42. A. Haghghat, P. Huber, S. Li, J. M. Link, C. Mariani, J. Park and T. Subedi, Phys. Rev. Applied **13**, no.3, 034028 (2020) doi:10.1103/PhysRevApplied.13.034028 [arXiv:1812.02163 [physics.ins-det]].
 43. C. Adams *et al.* [MicroBooNE], Phys. Rev. D **99**, no.9, 091102 (2019) doi:10.1103/PhysRevD.99.091102 [arXiv:1811.02700 [hep-ex]].
 44. H. Dai, M. Murphy, V. Pandey, D. Abrams, D. Nguyen, B. Aljawrneh, S. Alsalmi, A. M. Ankowski, J. Bane and S. Barcus, *et al.* Phys. Rev. C **99**, no.5, 054608 (2019) doi:10.1103/PhysRevC.99.054608 [arXiv:1810.10575 [nucl-ex]].
 45. M. G. Betti, M. Biasotti, A. Boscá, F. Calle, J. Carabe-Lopez, G. Cavoto, C. Chang, W. Chung, A. G. Cocco and A. P. Colijn, *et al.* Prog. Part. Nucl. Phys. **106**, 120-131 (2019) doi:10.1016/j.pnpnp.2019.02.004 [arXiv:1810.06703 [astro-ph.IM]].
 46. C. Adams *et al.* [MicroBooNE], Phys. Rev. D **99**, no.9, 092001 (2019) doi:10.1103/PhysRevD.99.092001 [arXiv:1808.07269 [hep-ex]].
 47. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], Phys. Rev. Lett. **121**, no.22, 221801 (2018) doi:10.1103/PhysRevLett.121.221801 [arXiv:1805.12028 [hep-ex]].
 48. C. Adams *et al.* [MicroBooNE], Eur. Phys. J. C **79**, no.3, 248 (2019) doi:10.1140/epjc/s10052-019-6742-3 [arXiv:1805.06887 [hep-ex]].
 49. C. Adams *et al.* [MicroBooNE], JINST **13**, no.07, P07007 (2018) doi:10.1088/1748-0221/13/07/P07007 [arXiv:1804.02583 [physics.ins-det]].
 50. H. Dai *et al.* [Jefferson Lab Hall A], Phys. Rev. C **98**, no.1, 014617 (2018) doi:10.1103/PhysRevC.98.014617 [arXiv:1803.01910 [nucl-ex]].
 51. C. Adams *et al.* [MicroBooNE], JINST **13**, no.07, P07006 (2018) doi:10.1088/1748-0221/13/07/P07006 [arXiv:1802.08709 [physics.ins-det]].
 52. H. de Kerret *et al.* [Double Chooz], JHEP **11**, 053 (2018) doi:10.1007/JHEP11(2018)053 [arXiv:1802.08048 [hep-ex]].
 53. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], Phys. Rev. Lett. **120**, no.14, 141802 (2018) doi:10.1103/PhysRevLett.120.141802 [arXiv:1801.03848 [hep-ex]].
 54. R. Acciarri *et al.* [MicroBooNE], Eur. Phys. J. C **78**, no.1, 82 (2018) doi:10.1140/epjc/s10052-017-5481-6 [arXiv:1708.03135 [hep-ex]].
 55. R. Acciarri *et al.* [MicroBooNE], JINST **12**, no.12, P12030 (2017) doi:10.1088/1748-0221/12/12/P12030 [arXiv:1707.09903 [hep-ex]].

56. R. Acciarri *et al.* [MicroBooNE], JINST **12**, no.08, P08003 (2017) doi:10.1088/1748-0221/12/08/P08003 [arXiv:1705.07341 [physics.ins-det]].
57. R. Acciarri *et al.* [MicroBooNE], JINST **12**, no.09, P09014 (2017) doi:10.1088/1748-0221/12/09/P09014 [arXiv:1704.02927 [physics.ins-det]].
58. P. Abratenko *et al.* [MicroBooNE], JINST **12**, no.10, P10010 (2017) doi:10.1088/1748-0221/12/10/P10010 [arXiv:1703.06187 [physics.ins-det]].
59. R. Acciarri *et al.* [MicroBooNE], JINST **12**, no.02, P02017 (2017) doi:10.1088/1748-0221/12/02/P02017 [arXiv:1612.05824 [physics.ins-det]].
60. T. Abrahão *et al.* [Double Chooz], JCAP **02**, 017 (2017) doi:10.1088/1475-7516/2017/02/017 [arXiv:1611.07845 [hep-ex]].
61. K. Abe *et al.* [Hyper-Kamiokande], PTEP **2018**, no.6, 063C01 (2018) doi:10.1093/ptep/pty044 [arXiv:1611.06118 [hep-ex]].
62. R. Acciarri *et al.* [MicroBooNE], JINST **12**, no.03, P03011 (2017) doi:10.1088/1748-0221/12/03/P03011 [arXiv:1611.05531 [physics.ins-det]].
63. A. M. Ankowski and C. Mariani, J. Phys. G **44**, no.5, 054001 (2017) doi:10.1088/1361-6471/aa61b2 [arXiv:1609.00258 [hep-ph]].
64. Y. Abe *et al.* [Double Chooz], JINST **11**, no.08, P08001 (2016) doi:10.1088/1748-0221/11/08/P08001 [arXiv:1604.06895 [physics.ins-det]].
65. A. M. Ankowski, O. Benhar, C. Mariani and E. Vagnoni, Phys. Rev. D **93**, no.11, 113004 (2016) doi:10.1103/PhysRevD.93.113004 [arXiv:1603.01072 [hep-ph]].
66. Y. Abe *et al.* [Double Chooz], Phys. Rev. C **93**, no.5, 054608 (2016) doi:10.1103/PhysRevC.93.054608 [arXiv:1512.07562 [nucl-ex]].
67. Y. Abe *et al.* [Double Chooz], JHEP **01**, 163 (2016) doi:10.1007/JHEP01(2016)163 [arXiv:1510.08937 [hep-ex]].
68. A. M. Ankowski, P. Coloma, P. Huber, C. Mariani and E. Vagnoni, Phys. Rev. D **92**, no.9, 091301 (2015) doi:10.1103/PhysRevD.92.091301 [arXiv:1507.08561 [hep-ph]].
69. A. M. Ankowski, O. Benhar, P. Coloma, P. Huber, C. M. Jen, C. Mariani, D. Meloni and E. Vagnoni, Phys. Rev. D **92**, no.7, 073014 (2015) doi:10.1103/PhysRevD.92.073014 [arXiv:1507.08560 [hep-ph]].
70. K. Abe *et al.* [Hyper-Kamiokande Proto-], PTEP **2015**, 053C02 (2015) doi:10.1093/ptep/ptv061 [arXiv:1502.05199 [hep-ex]].
71. O. Benhar, P. Huber, C. Mariani and D. Meloni, Phys. Rept. **700**, 1-47 (2017) doi:10.1016/j.physrep.2017.07. [arXiv:1501.06448 [nucl-th]].
72. Y. Abe *et al.* [Double Chooz], JHEP **10**, 032 (2014) doi:10.1007/JHEP10(2014)032 [arXiv:1407.6913 [physics.ins-det]].
73. Y. Abe *et al.* [Double Chooz], JHEP **10**, 086 (2014) [erratum: JHEP **02**, 074 (2015)] doi:10.1007/JHEP02(2015)074 [arXiv:1406.7763 [hep-ex]].
74. L. N. Kalousis, E. Guarnaccia, J. M. Link, C. Mariani and R. Pelkey, JINST **9**, P08010 (2014) doi:10.1088/1748-0221/9/08/P08010 [arXiv:1406.2641 [physics.ins-det]].
75. Y. Abe *et al.* [Double Chooz], Nucl. Instrum. Meth. A **764**, 330-339 (2014) doi:10.1016/j.nima.2014.07.058 [arXiv:1405.6227 [physics.ins-det]].
76. C. M. Jen, A. Ankowski, O. Benhar, A. P. Furmanski, L. N. Kalousis and C. Mariani, Phys.

- Rev. D **90**, no.9, 093004 (2014) doi:10.1103/PhysRevD.90.093004 [arXiv:1402.6651 [hep-ex]].
77. D. Adey *et al.* [nuSTORM], Phys. Rev. D **89**, no.7, 071301 (2014) doi:10.1103/PhysRevD.89.071301 [arXiv:1402.5250 [hep-ex]].
 78. Y. Abe *et al.* [Double Chooz], Phys. Lett. B **735**, 51-56 (2014) doi:10.1016/j.physletb.2014.04.045 [arXiv:1401.5981 [hep-ex]].
 79. S. J. Brice, R. L. Cooper, F. DeJongh, A. Empl, L. M. Garrison, A. Hime, E. Hungerford, T. Kobilarcik, B. Loer and C. Mariani, *et al.* Phys. Rev. D **89**, no.7, 072004 (2014) doi:10.1103/PhysRevD.89.072004 [arXiv:1311.5958 [physics.ins-det]].
 80. P. Coloma, P. Huber, C. M. Jen and C. Mariani, Phys. Rev. D **89**, no.7, 073015 (2014) doi:10.1103/PhysRevD.89.073015 [arXiv:1311.4506 [hep-ph]].
 81. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], Phys. Rev. D **91**, no.1, 012004 (2015) doi:10.1103/PhysRevD.91.012004 [arXiv:1309.7257 [hep-ex]].
 82. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], Phys. Rev. Lett. **110**, 161801 (2013) doi:10.1103/PhysRevLett.110.161801 [arXiv:1303.2588 [hep-ex]].
 83. A. A. Aguilar-Arevalo *et al.* [MiniBooNE], Phys. Rev. D **88**, no.3, 032001 (2013) doi:10.1103/PhysRevD.88.032001 [arXiv:1301.7067 [hep-ex]].
 84. Y. Abe *et al.* [Double Chooz], Phys. Lett. B **723**, 66-70 (2013) doi:10.1016/j.physletb.2013.04.050 [arXiv:1301.2948 [hep-ex]].
 85. Y. Abe *et al.* [Double Chooz], Phys. Rev. D **87**, no.1, 011102 (2013) doi:10.1103/PhysRevD.87.011102 [arXiv:1210.3748 [hep-ex]].
 86. Y. Abe *et al.* [Double Chooz], Phys. Rev. D **86**, 112009 (2012) doi:10.1103/PhysRevD.86.112009 [arXiv:1209.5810 [hep-ex]].
 87. G. Cheng *et al.* [MiniBooNE and SciBooNE], Phys. Rev. D **86**, 052009 (2012) doi:10.1103/PhysRevD.86.052009 [arXiv:1208.0322 [hep-ex]].
 88. Y. Abe *et al.* [Double Chooz], Phys. Rev. D **86**, 052008 (2012) doi:10.1103/PhysRevD.86.052008 [arXiv:1207.6632 [hep-ex]].
 89. C. Mariani, Mod. Phys. Lett. A **27**, 1230010 (2012) doi:10.1142/S0217732312300108 [arXiv:1201.6665 [hep-ex]].
 90. Y. Abe *et al.* [Double Chooz], Phys. Rev. Lett. **108**, 131801 (2012) doi:10.1103/PhysRevLett.108.131801 [arXiv:1112.6353 [hep-ex]].
 91. C. Mariani, G. Cheng, J. M. Conrad and M. H. Shaevitz, Phys. Rev. D **84**, 114021 (2011) doi:10.1103/PhysRevD.84.114021 [arXiv:1110.0417 [hep-ex]].
 92. K. B. M. Mahn *et al.* [SciBooNE and MiniBooNE], Phys. Rev. D **85**, 032007 (2012) doi:10.1103/PhysRevD.85.032007 [arXiv:1106.5685 [hep-ex]].
 93. G. Cheng *et al.* [SciBooNE], Phys. Rev. D **84**, 012009 (2011) doi:10.1103/PhysRevD.84.012009 [arXiv:1105.2871 [hep-ex]].
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