Brief Curriculum Vitae: Barenboim, Gabriela

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Research Interests: Theoretical physics: Neutrino physics. Phenomenology of elementary particles and their interactions and implications on astrophysical and cosmological scenarios. Collider physics. Physics beyond the Standard Model.

Education:

Univ. Buenos Aires (Argentina)	BSc in Physics	March 1993
Univ. Valencia (Spain)	PhD in Physics	20th, June 1997

Career

University of Buenos Aires research fellowship (undergraduate)	1991-1993
National Atomic Energy Commision fellow (graduate)	1992-1994
University of Valencia, MUTIS fellowship (graduate)	1994-1997
Mainz University (Germany) postdoctoral fellow	1997-1999
CERN, TH division, paid associate	1999-2001
Fermilab, theory group, research associate	2001-2003
University of Valencia, Ramon y Cajal fellow	2003-2007
University of Valencia, Professor.	2007-
CERN-TH Neutrino Platform coordinator	2015-
EuCAPT- Directorate	2023-

Honors

- Idea Prize awarded by the Arts and Science Foundation (Spain) on the category of Basic Research, 2006
- Behram Kursunuglu award, given at the Coral Gables Conference for best postdoctoral presentation, December 2002.
- Outstanding PhD Thesis Award, University of Valencia, 1997

Invited talks, Seminars and Lectures (over the last 10 years)

~ 25 invited talks at international conferences .
~ 60 invited seminars at different international research centers

- Lecturer (3 x 1 hours) GGI Neut4rino Frontiers, June 2024.
- Lecturer (3 x 1 hours), XXI LNF Spring School "Bruno Touschek" May 2024.
- Lecturer (2 x 1,5 hours) CERN European School on High Energy Physics, Greena, Denmark, September 2023.
- Lecturer (3 x 1 hours) Niels Bohr Academy on neutrinos, Copenhaguen, July 2023.
- Lecturer (3 x 1 hour) at the TAE21, Benasque Science Centre, Spain, September 2021.
- Lecturer (2 x 1,5 hours) CERN International Neutrino Summer School, Switzweland August, 2021.
- Lecturer (3 x 1,5 hours) CERN Asia-Europe-Pacific School on High Energy Physics, September 2018, Vietnam.
- Lecturer (3 x 1,5 hours) CERN European School of High-Energy Physics, June 2016, Norway.
- Lecturer (3 x 1 hour) at the TAE15, Benasque Science Centre, September 2015, Spain.
- Lecturer (3 x 1 hour) at the International Meeting on Fundamental Physics, June 2013, Spain.

Publications of Gabriela Barenboim as of Agust 17, 2024

(DUNE publications not included)

1. G. Barenboim, H. Sanchis, W. H. Kinney and D. Rios, [arXiv:2407.18102 [astro-ph.CO]].

2. G. Barenboim, P. Ko and W. i. Park, [arXiv:2403.08675 [hep-ph]].

3. G. Barenboim, P. Ko and W. i. Park, [arXiv:2403.05390 [hep-ph]].

4. G. Barenboim., L. D. Debbio, J. Hirn, J., and V. Sanz
Neural Comput& Applic **36**, 17007–17022 (2024). https://doi.org/10.1007/s00521-024-09956-9

5. G. Barenboim, A. M. Calatayud-Cadenillas, A. M. Gago and C. A. Ternes, Phys. Lett. B **852** (2024), 138626 doi:10.1016/j.physletb.2024.138626 [arXiv:2402.16395 [hep-ph]].

6. G. Barenboim and A. M. Gago, [arXiv:2402.03438 [hep-ph]].

7. R. Alicki, G. Barenboim and A. Jenkins, [arXiv:2307.04803 [gr-qc]].

8. R. Alicki, G. Barenboim and A. Jenkins, Phys. Rev. D **108** (2023) no.12, 123530 doi:10.1103/PhysRevD.108.123530 [arXiv:2307.04800 [gr-qc]].

9. G. Barenboim, P. Martínez-Miravé, C. A. Ternes and M. Tórtola, Phys. Rev. D **108** (2023) no.3, 035039 doi:10.1103/PhysRevD.108.035039 [arXiv:2305.06384 [hep-ph]].

10. G. Barenboim, Front. in Phys. **10** (2022), 813753 doi:10.3389/fphy.2022.813753

11. C. A. Argüelles, G. Barenboim, M. Bustamante, P. Coloma, P. B. Denton, I. Esteban, Y. Farzan, E. F. Martínez, D. V. Forero and A. M. Gago, *et al.* Eur. Phys. J. C **83** (2023) no.1, 15 doi:10.1140/epjc/s10052-022-11049-7 [arXiv:2203.10811 [hep-ph]].

12. G. Barenboim, N. Blinov and A. Stebbins, JCAP **12** (2021) no.12, 026 doi:10.1088/1475-7516/2021/12/026 [arXiv:2107.10293 [astro-ph.CO]].

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14. G. Barenboim, J. Z. Chen, S. Hannestad, I. M. Oldengott, T. Tram and Y. Y. Y. Wong, JCAP **03** (2021), 087 doi:10.1088/1475-7516/2021/03/087 [arXiv:2011.01502 [astro-ph.CO]].

15. G. Barenboim and U. Nierste, Phys. Rev. D **104** (2021) no.2, 023013 doi:10.1103/PhysRevD.104.023013 [arXiv:2005.13280 [hep-ph]].

16. M. A. Tórtola, G. Barenboim and C. A. Ternes, JHEP **07** (2020), 155 doi:10.1007/JHEP07(2020)155 [arXiv:2005.05975 [hep-ph]].

17. G. A. Barenboim, P. Martínez-Miravé, C. A. Ternes and M. A. Tórtola, JHEP **03** (2020), 070 doi:10.1007/JHEP03(2020)070 [arXiv:1911.02329 [hep-ph]].

18. G. Barenboim, J. Turner and Y. L. Zhou, Eur. Phys. J. C **81** (2021) no.6, 511 doi:10.1140/epjc/s10052-021-09300-8 [arXiv:1909.04675 [hep-ph]].

19. G. Barenboim and C. T. Hill, Eur. Phys. J. C **81** (2021) no.2, 150 doi:10.1140/epjc/s10052-021-08928-w [arXiv:1909.01956 [hep-th]].

20. G. Barenboim, P. B. Denton and I. M. Oldengott, Phys. Rev. D **99** (2019) no.8, 083515 doi:10.1103/PhysRevD.99.083515 [arXiv:1903.02036 [astro-ph.CO]].

21. G. Barenboim, P. B. Denton, S. J. Parke and C. A. Ternes, Phys. Lett. B **791** (2019), 351-360 doi:10.1016/j.physletb.2019.03.002 [arXiv:1902.00517 [hep-ph]].

22. G. Barenboim and W. I. Park, Eur. Phys. J. C **79** (2019) no.6, 456 doi:10.1140/epjc/s10052-019-6970-6 [arXiv:1901.05799 [hep-ph]].

23. I. M. Oldengott, G. Barenboim, S. Kahlen, J. Salvado and D. J. Schwarz, JCAP **04** (2019), 049 doi:10.1088/1475-7516/2019/04/049 [arXiv:1901.04352 [astro-ph.CO]].

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