

Curriculum vitae - Erez Etzion

PERSONAL INFORMATION

Researcher unique identifier(s):ORCID:0000-0001-6871-7794

Date of birth: August, 25th, 1960

Nationality: Israeli

URL for web site: <https://en-exact-sciences.tau.ac.il/profile/ereze>

• EDUCATION

- 1994 Ph.D. (with distinction) School of Physics and Astronomy, Tel Aviv University (TAU)
- 1991 M.Sc. (Magna Cum Laude) School of Physics and Astronomy, TAU, Israel
- 1988 B.Sc. Physics and Computing Science, Faculty of Exact Sciences, TAU, Israel

• CURRENT POSITION

- 2019- Head, School of Physics and Astronomy, TAU, Israel
- 2013- Professor of Physics, School of Physics and Astronomy, TAU, Israel

• PREVIOUS POSITIONS

- 1998-2012 Senior lecturer, Associate professor, School of Physics and Astronomy, TAU
- 2003-2013 Several appointments of Corresponding Associate or Scientific Associate, CERN
- 1996-1997 Researcher, U. of Wisconsin-Madison, at Stanford Linear Accelerator Center
- 1994-1996 Research fellow, Brunel University and Rutherford Lab, based at SLAC

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCS

- 1998-now TAU, 14 M.Sc. students, 13 Ph.D. students, 7 postdoctoral fellows.
Two of which are on tenure-track at TAU and Weizmann institute, others are researchers / postdocs at Colorado U., U. of Heidelberg, CERN, MIT & Fermi Lab, the rest hold leading positions at the industry e.g. Facebook, Rafael...

• FELLOWSHIPS AND AWARDS

- 2013-2018 The Quantum Universe, Israeli Center of Research Excellence, TAU
- 2014-2018 Personal ISF, PAZI Y, MAFAT grants, TAU
- 2000-2019 Bi-national Germany Israel and US Israel BSF and NSF grants, TAU
- 1999-2019 Excellence centres, Israeli Science Foundation, TAU
- 1997-1999 Hackmey Fellowship, TAU
- 1992, 1993 Gutwirth foundation excellence scholarship, TAU
- 1991 De-Shalit excellence scholarship, Italy
- 1991 Schreiber excellence scholarship, TAU

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2018 Simons MATHUSLA workshop, Organising Committee, Stony Brook, US
- 2018 CERN school of computing 2018, Local Organising Committee Chair, Tel Aviv, Israel
- 2017 From the LHC to DM and Beyond, Organising Committee, Aspen, Colorado, US
- 2016 Higgs Beyond the SM Exotics workshop, Organising Committee, Geneva, Switzerland
- 2014 ATLAS Exotics run-2 workshop, Organizing Committee Chair, Eilat, Israel
- 2014 Naturalness 2014, Organizing committee, Weizmann Institute, Israel
- 2014 ATLAS preparations for run-2, Programme Committee Chair, Aix-les-Bains, France
- 2013 Aspen conference on Particle Physics, International Advisory Committee, Colorado, US
- 2012 SEARCH workshop, Organizing committee, Maryland, US
- 2011 Flavor Physics & CP Violation, Organizing committee, Maale Hachmisha, Israel
- 2008 ATLAS Muon workshop, Organizing Committee Chair, Eilat, Israel

• INSTITUTIONAL RESPONSIBILITIES

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|--------------|------------------------------|--|
| 2019-present | Tel Aviv University: | Head, School of Physics and Astronomy |
| 2015-2019 | Tel Aviv University: | Chair, Particle Physics Department |
| 2015-2019 | Tel Aviv University: | Chair, Physics PhD Studies Committee |
| 2007-2010 | Tel Aviv University: | Chair, Physics Undergraduate Studies Committee |
| 1998-present | Tel Aviv University: | Head, detectors R&D lab. |
| 2018-present | Tel Aviv University: | Chair, Senior Academic Staff Union |
| 2017-2019 | ATLAS Collaboration: | Executive Board, member at large |
| 2014-2015 | ATLAS Collaboration: | Convener, Higgs BSM group |
| 2011-2013 | ATLAS Collaboration: | Convener, Exotics Physics group |
| 2010-2012 | ATLAS Collaboration: | Member, Publication committee |
| 2010-2011 | ATLAS Collaboration: | Member, CB chair advisory board |
| 2010-2011 | ATLAS Collaboration: | Member, Muon spectrometer steering group |
| 2008-2017 | CERN: | Member, Advisory Committee of CERN Users |
| 1993 | Israeli Ministry of Science: | Construction of a Cosmic Ray Centre. |

Ten representative publications from last ten years (total of 1242 publications)

1. **SENSEI: Direct-Detection Constraints on Sub-GeV Dark Matter from a Shallow Underground Run Using a Prototype Skipper-CCD**, O. Abramoff, L. Barak, T. Volansky, E. Etzion *et al.* [SENSEI Collaboration], Phys. Rev. Lett. **122**, no.16, 161801, arXiv:1901.10478 [hep-ex] (2019)
2. **MATHUSLA: A Detector Proposal to Explore the Lifetime Frontier at the HL-LHC**, H. Lubatti, E. Etzion, G. Mizrachi, Y. Silver *et al.* [MATHUSLA Collaboration], FERMILAB-PUB-19-016-CMS, arXiv:1901.04040 [hep-ex] (2019).
3. **A Letter of Intent for MATHUSLA: a dedicated displaced vertex detector above ATLAS or CMS**, C. Alpigiani, E. Etzion, G. Mizrachi, Y. Silver *et al.* [MATHUSLA Collaboration],

CERN-LHCC-2018-025, arXiv:1811.00927, (2019)

4. **Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV**, M. Aaboud, E. Etzion *et al.* [ATLAS Collaboration], Phys. Rev. Lett. **121**, no. 8, 081801 (2018)
5. **Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment**, M. Aaboud, E. Etzion *et al.* [ATLAS Collaboration], Phys. Rev. Lett. **120**, no. 21, 211802 (2018)
6. **First results with a microcavity plasma panel detector**, R. Ball, E. Etzion, Y. Silver, *et al.*, Nucl. Instrum. Meth. A784, arXiv:1407.6491 [physics.ins-det] (2015)
7. **Development of a plasma panel radiation detector**, R. Ball, E. Etzion, Y. Silver, *et al.*, Nucl. Instrum. Meth. A 764, arXiv:1403.3454 [physics.ins-det] (2014)
8. **Simplified Models for Dark Matter Searches at the LHC**, J. Abdallah, E. Etzion *et al.*, Phys. Dark Univ. **9-10**, 8 arXiv:1506.03116 [hep-ph] (2015)
9. **Search for long-lived neutral particles decaying into lepton jets in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector**, G. Aad, E. Etzion, Y. Silver *et al.* [ATLAS Collaboration], JHEP **1411**, 088, arXiv:1409.0746 [hep-ex] (2014)
10. **A search for heavy Kaluza-Klein electroweak gauge bosons at the LHC**, G. Bella, E. Etzion, N. Hod, Y. Oz, Y. Silver, M. Sutton, JHEP **1009**, 025, arXiv:1004.2432 [hep-ex] (2010)