

Curriculum Vitae

Itamar Levy

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Education:

2012 - 2020 Ph.D. in Physics, School of Physics and Astronomy, Tel Aviv University, Israel. Under the supervision of Professor Halina Abramowicz and Professor Aharon Levy, in the subject of "*Detector R&D towards realistic luminosity measurement in the forward region of future $e+e-$ linear colliders*"

2009 - 2012 M.Sc. in Physics, School of Physics and Astronomy, Tel Aviv University, Israel, graduated with honors. In the subject of "*Detector development for the instruments in the forward region of future linear colliders*".

2006 - 2009 B.Sc in Physics, School of Physics and Astronomy, Tel Aviv University, Israel.

Professional Experience:

9/2017 - Present Junior research staff, Physics Department, Nuclear Research Center - Negev (Israel).

2012 - 2017 Instructor in the advanced teaching lab (Compton scattering, Neutrino mass, FTIR and Fluorescence), Physics Department, Tel Aviv University.

2009 - 2012 Instructor and experiment-developer in the junior teaching lab, Physics Department, Tel Aviv University.

2000- 2006 Accepted to the "Talpiot" program without finishing.

Served as a combat officer in infantry and armored forces.

Prolonged my service for an additional 2.5 years to join the Research Department of the Military Intelligence, (Aman).

Academic Achievements:

- 2017 - Sulamith Goldhaber scholarship for excellence in research.
- 2015 - Scholarship for excellence in teaching as an instructor in the advanced teaching lab.
- 2010 - Scholarship for excellence in junior lab developments.

Experience:

Since the start of my M.Sc I have been trained as a particle detectors physicist as part of the High Energy Physics Experimental group at Tel Aviv University, under the supervision of Professor Halina Abramowicz and Professor Aharon Levy. My main research topic is silicon sensors R&D and DAQ for the Forward Calorimeter at future lepton LC (ILC and CLIC). I took a major part in the setup and data acquisition system of several beam test campaigns, at DESY and CERN. I contribute to the analysis, in some cases as the main analyser. I developed, and worked on the upgrade of the infrastructure of the TAU silicon lab.

Currently I am working on the developments of radiation detection and data acquisition (DAQ) systems at the Physics Department of the Nuclear Research Center - Negev. As part of my responsibility I am also involved in reactor safety systems and tests. In addition, I continue my research on forward calorimeters in collaboration with HEP Experimental group at TAU.

Presentation in international scientific conferences:

1. "FCAL main activities", 4th FCC Physics and Experiments workshop, November 2020, CERN (Virtual), Switzerland.
2. "Forward Detectors - technology requirements and opportunities", AWLC 2020, October 2020, SLAC (Virtual), USA.
3. "Forward calorimetry for future e+e- colliders", IPS conference, December 2017, Haifa, Israel.
4. "Measurement of shower development and its Molière radius with a four-plane LumiCal test set-up", EPS-HEP, July 2017, Venice, Italy.
5. "Results from 2014 FCAL test beam", CLIC Workshop, March 2017, CERN, Switzerland.
6. "R&D on very forward calorimeters for e+e- colliders", Interdiction to the FCAL section, ECFA-LC Workshop, June 2016, Santander, Spain.
7. "Determination of the effective Molière radius", ECFA-LC Workshop, June 2016, Santander, Spain.
8. "Test-beam results for BeamCal and LumiCal sensor planes", CLIC Workshop, February 2014, CERN, Switzerland.
9. "Beam Test Performance Results of the LumiCal Detector Module", European Linear Collider Workshop ECFA, Hamburg, May 2013.
10. During the last few years I gave a talk at every semi-annual FCAL Collaboration Workshop.