Curriculum Vitae Tomer Volansky

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Education

2000 B.Sc.

Physics and Mathematics, The Hebrew University of Jerusalem.

Magna cum laude ("Amirim" program for excellence).

M.Sc. 2003

Physics department, Weizmann Institute of Science, Israel.

Thesis: Topics in Particle Cosmology

Thesis advisors: Prof. Micha Berkooz and Prof. Yossi Nir

2007 Ph.D.

Physics department, Weizmann Institute of Science, Israel.

Thesis: From Particle Cosmology to String Theory

Thesis advisors: Prof. Micha Berkooz and Prof. Yossi Nir

Academic Positions

2007-2010 Member (Postdoctoral Fellow)

Institute for Advanced Study, Princeton, NJ.

2010-2011 Postdoctoral Scholar

Berkeley Center for Theoretical Physics, UC Berkeley, CA.

2011-2014 Senior Lecturer

Tel-Aviv University, Israel.

2014-Associate Professor

Tel-Aviv University, Israel.

Tomer Volansky 1/7 2011-2016 Scientific Adviser

Weizmann Institute of Science, Israel.

Short Term Positions

2012-2015	Short Term Associate
	ATLAS experiment at the LHC, CERN.
2013-2014	Short Term Associate

XENON100 collaboration.

Awards and Honors

1998	Dean's excellence prize, Hebrew University
2003	M.Sc. Prize of Excellency, Weizmann Institute of Science
2005-2007	The Clore Fellowship for outstanding Ph.D. students
2007-2008	The Rothschild Postdoctoral Fellowship
2008	Ph.D. Prize of Excellency, Weizmann Institute of Science
2011	Alon Fellowship for Young Researchers (awarded by the Council for higher
	education, MALAG)
2012	The Raymond and Beverly Sackler Young Faculty Chair
2013	The Krill Prize for Excellence in Scientific Research (awarded by the Wolf Foun-
	dation).
2014	Offered a 5 year staff position at CERN (declined)
2015	Israeli Physical Society (IPS) prize for outstanding young scientist.
2017	Elected member of the Israel Young Academy of Sciences and Humanities.

Institutional Responsibilities

2011-2012	Organizer of the physics colloquium
2011-	Organizer of the internal seminar
2014-	Co-Organizer of a joint particle physics seminar, Tel-Aviv University,
	Weizmann Institute and Technion

Organization of Scientific Meetings

2009	Workshop, "Current Trends in Dark Matter", IAS, Princeton, USA.
2010	Workshop, "From Colliders to the Dark Sector: Understanding Dark Matter at
	Particle Colliders and Beyond", Aspen Center for Physics, Aspen, USA.

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2014	Conference, "Frontiers in Particle Physics: From Dark Matter to the LHC and
	Beyond", Aspen Center for Physics, Aspen, USA.
2014	Workshop, "Exotics Physics Workshop", Eilot, Israel.
2014	Workshop, "Naturalness 2014", Weizmann Institute, Israel.
2015	Workshop, "Beyond WIMPs: From Theory to Detection", Kibutz HaGoshrim,
	Israel.
2015	Workshop, "Lattice Gauge Theory Beyond the Standard Model", Tel-Aviv Uni-
	versity, Israel.
2016	Workshop, "62nd Meeting of the Israel Physical Society", Tel-Aviv University,
	Israel.
2017	Workshop, "Mini-Workshop on Beyond the Standard Model", Neot Smadar,
	Israel.
2017	Workshop, "Particle Physics in 2017: From the LHC to Dark Matter and Be-
	yond", Aspen Center for Physics, Aspen, USA.
2017	Workshop, "Beyond WIMPs: From Theory to Detection", Stony Brook Uni-
	versity, USA.

Commissions of Trust

2007-	Reviewer.

Journal of High Energy Physics (JHEP), Journal of Cosmology and Astroparticle Physics (JCAP), Physical Review D, Nuclear Physics B, Astroparticle Physics, Physics Letters B, Nature Physics, German-Israeli Foundation (GIF), VIDI Scheme, Israel Science Foundation (ISF).

2014- Review panel member,

Binational Science Foundation. PAZI foundation.

Grants

2011-2014	EU FP7 Career Integration Grants (CIG) grant No. 293557
	"From Dark Matter to the Large Hadron Collider: A New Data-Driven Era"
	100,000 EURO over four years.
	Principal Investigator.
2011-2014	Israel Science Foundation (ISF) grant No. 739/11
	"Particle Physics in the New Data-Driven Era"
	780,000 NIS over four years.

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Principal Investigator.

2011-2014	Binational Science Foundation (BSF) grant No. 2010221
	"Physics beyond the Standard Model: Dark Matter and the LHC"
	\$112,000 over four years.
	Principal Investigator. Grant shared equally with Yael Shadmi (Technion).
2013-2018	I-CORE Excellence Center
	"The Quantum Universe"
	\$45M for five years.
	Principal Investigator . Grant shared with the whole center (17 members).
2015-2017	German-Israeli Foundation for Scientific Research and Development (GIF) grant No. I-1283-303.7/2014
	"Frontiers in Dark Matter and Particle Physics Phenomenology: From Theory
	to Detection"
	180,000 EURO for three years.
	Principal Investigator. Grant shared equally with Alejandro Ibarra (TUM,
	Munich).
2015-2018	PAZI Foundation
	"New Directions For Ultra-Low-Threshold Detectors: Towards Detection of Light Dark Matter Neutrinos and slow Neutrons"
	1,520,000 NIS for four years. My share roughly: 400,000 NIS.
	Principal Investigator. Grant Shared with: Ranny Budnik (Weizmann), Ori
	Chechnovsky (TAU), Arik Kreisel (SNRC) and Avner Soffer (TAU).
2015-2020	ERC Consolidator
	"Going Beyond the WIMP: From Theory to Detection of Light Dark Matter"
	1,820,000 EURO for five years.
	Principal Investigator.

Teaching Experience

2015-	Lecturer - Particle Physics 2, Tel-Aviv University, Israel.
2012-	Lecturer - Particle Physics 1, Tel-Aviv University, Israel.
2012-2016	Lecturer - Advanced Electromagnetism, Tel-Aviv University, Israel.
2011-2012	Lecturer - Physics beyond the Standard Model, Tel-Aviv University, Israel.
2002-2006	Teaching Assistant - Field Theory and Advanced Quantum Mechanics, Weiz-
	mann Institute of Science, Israel.

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Students and Postdocs

2012-2015	Amir Yaakobi, M.Sc., Topics in Direct Detection of Dark Matter
2015-	Noam Levi, M.Sc.
2015-	Nadav Outmezguine, Ph.D.
2014-	Itay Bloch, Ph.D., Axions and Dark Matter
2012-2017	Oren Slone, Ph.D., Topics in Dark Matter Physics and Collider Phenomenol-
	ogy
2011-2013	Eric Kuflik, Postdoc, (now in Cornell).
2014-2017	Lorenzo Ubaldi, Postdoc.
2014-2017	Kohsaku Tobioka, Postdoc.
2014-2017	Walter Tangarife, Postdoc.
2016-	Diego Redigolo, Postdoc.

Military Service

1993-1996 Intelligence force, technological research

Invited Talks

2002	Workshop on Time Variations in Alpha, Weizmann Institute, Israel.
2006	International School on LHC Physics, Weizmann & Technion Israel.
2008	"Physics of the Large Hadron Collider", KITP, Santa Barbara.
2009	"The Year of the Ox", Aspen Center for Physics.
2009	"SM-BSM physics at the LHC", CERN, Geneva.
2011	"Indirect and Direct Detection of Dark Matter", Aspen Center for Physics.
2012	"Implications of LHC results for TeV scale physics", Plenary Talk, CERN,
	Geneva.
2012	Rencontres de Moriond 2012, Plenary Talk, La Thuile, Italy.
2012	PLANCK 2012, Plenary Talk, Warsaw, Poland.
2012	52nd Cracow School of Theoretical Physics, Zakopane, Poland.
2012	"Lessons from the first phase of the LHC", DESY, Hamburg, Germany.
2012	"Understanding the TeV Scale Through LHC Data, Dark Matter, and Other
	Experiments", GGI, Florence, Italy.
2012	Johns Hopkins 36th Conference, Plenary Talk, Florence, Italy.
2013	SEARCH Workshop, Stony Brook, USA.
2013	"SUSY: Model building and Phenomenology", IPMU, Japan.
2014	"GGI Lectures on The Theory of Fundamental Interactions", GGI, Italy.
2014	"Theory, Phenomenology and Experiments in Flavour Physics", Capri, Italy.

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2014	New Physics Korea Institute (NPKI) workshop, Jeju, Korea.
2015	DARWIN workshop, Weizmann, Israel.
2015	"Off the Beaten Track", ICTP, Italy.
2015	"Anticipating Discoveries: LHC14 and Beyond", Max Planck Institute, Ger-
	many.
2015	"Symposium on High Energy Physics", Niels Bohr Institute, Copenhagen, Den-
	mark.
2015	European Physics Society 2015 (EPS-HEP), Plenary review talk, Vienna, Aus-
	tria.
2015	Lepton-Photon 2015, Plenary review talk, Ljubljana, Slovenia.
2015	"Prospects in Low Mass Dark Matter", Max Planck Institute, Germany.
2016	"Searching for Exotic Hidden Signature with ATLAS in LHC Run2", Cosenza,
	Italy.
2016	"The 3rd NPKI Workshop: The lesson from the first results of Run 2 of the
	LHC", Seoul, South Korea.
2016	"LHC-Ski", Obergurgl University, Austria.
2016	"Integration into Future Linear Collider Detectors", review talk, Tel-Aviv Uni-
	versity, Israel.
2017	"Physics in LHC and the Early Universe", review talk, Tokyo, Japan.
2017	"ICTP-SAIFR South American Dark Matter Workshop", review talk, Sao
	Paulo, Brazil.

Seminars and Colloquia

2003	The cosmological moduli problem, Technion, Israel.
2003	The cosmological moduli problem, International School on Astroparticle and
	Neutrino Physics, Italy (Won first prize in students' talk competition).
2004	Baryogenesis from the KM phase, LBNL, Berkeley.
2005	What can flavor physics tell us about Baryogenesis, Weizmann Institute.
2006	Extracting Flavor from Quiver Gauge Theories, SUSY06, Irvine.
2006	Neutrino Anarchy from Quiver Gauge Theories, UC Irvine.
2006	Neutrino Anarchy from Quiver Gauge Theories, Caltech, California.
2006	Neutrino Anarchy from Quiver Gauge Theories, LBNL, Berkeley.
2006	Neutrino Anarchy from Quiver Gauge Theories, CERN, Geneva.
2007	MFV@LHC: Constraining Flavor at the TEV Scale, Cornell University.
2007	MFV@LHC: Constraining Flavor at the TEV Scale, Boston University.
2008	Phases of MFV, Johns Hopkins.
2008	Towards a Complete Theory of Gauge Mediation, Rutgers University.
2008	Towards a Complete Theory of Gauge Mediation, Neve Shalom, Israel.

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2008	Semi-direct Gauge Mediation, IAS, Princeton.
2008	Semi-direct Gauge Mediation, Hebrew University.
2008	Semi-direct Gauge Mediation, Weizmann Institute.
2009	Dark Matter Sees the Light, Harvard, Boston.
2009	Dark Matter Sees the Light, University of Maryland.
2009	Dark Matter Sees the Light, NYU.
2009	Dark Matter Sees the Light, University of Pennsylvania.
2009	Colloquium, Tel-Aviv University.
2009	Indirect Probes of the Hidden Sector, IAS, Princeton.
2009	Indirect Probes of the Hidden Sector, LBNL, Berkeley.
2010	Indirect Probes of the Hidden Sector, Cornell University.
2010	Hiding the Higgs in Lepton Jets, University of Washington.
2010	Hiding the Higgs in Lepton Jets, SLAC.
2010	Hiding the Higgs in Lepton Jets, UC Irvine.
2010	Hiding the Higgs in Lepton Jets, LBNL, Berkeley.
2010	Hiding the Higgs in Lepton Jets, UC Davis.
2011	Asymmetric Dark Matter from Leptogenesis, Stony Brook.
2011	New Avenues for Direct Detection of DM, Neve Shalom, Israel.
2013	Higgs Decaying to Lepton Jets, University of Rome, Italy.
2013	The LHC, Dark Matter and Beyond, Colloquium, Bar-Ilan, Israel.
2014	The Hunt for Dark Matter, "The Quantum Universe" I-CORE Meeting, Tech-
	nion, Israel.
2014	The Hunt for Dark Matter, Tel-Aviv, Israel.
2014	Beyond WIMP: From Theory to Detection of Sub-GeV Dark Matter, Collo-
	quium, CERN.
2014	The Hunt for Dark Matter, IPS, Israel.
2015	The LHC, Dark Matter and Beyond, Colloquium, Technion, Israel.
2015	From the Big Bang, through the Discovery of the Higgs Boson and to the Secrets
	of Dark Matter: On the Search for the Theory of Everything, Public talk, Tel-
	Aviv, Israel.
2016	The LHC, Dark Matter and Beyond, Colloquium, Hebrew University, Israel.
2017	The Hunt for Dark Matter, Colloquium, Sao Paulo, Brazil.
2017	Relaxed Inflation, Brussels, Belgium.
2017	New Avenues in the Search for Dark Matter, Orsay, France.

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