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CURRICULUM VITAE

Michael Lublinsky

Address: Physics Department, Ben-Gurion University of the Negev,
Beer Sheva 84105, Israel
Work Phone: (+972) 8-6461567
Home Phone: (+972) 52-6046814
Fax: (+972) 8-6472904
E-mail: lublinm@bgu.ac.il

PERSONAL DATA

Date of Birth: October 6, 1972
Place of Birth: St-Petersburg, Russia
Date of Emigration: February 25, 1993

EDUCATION

2002 Ph. D. in Physics Technion – Israel Institute of Technology.
Field: High Energy Physics (Theory)
Thesis: *Nonperturbative QCD Effects in Deep Inelastic Scattering*.
Supervisors: Prof. B. Blok and Prof. E. Levin.

1997 M. Sc. in Physics Technion – Israel Institute of Technology.
Field: High Energy Physics (Theory).
Thesis: *Low Energy Hadron Properties in QCD*.
Supervisors: Prof. M. Moshe and Prof. B. Blok.

1994 B. Sc. in Physics Technion – Israel Institute of Technology.
(Cum Laude)

1989 - 1993 Undergraduate Student
Department of Plasma Physics,
St-Petersburg State Technical University, Russia.

POSITIONS HELD

- July 2017 – Present Full Professor.
Physics Department, Ben-Gurion University of the Negev,
Beer Sheva, Israel.
- March 2013 – June 2017 Associate Professor (Tenured).
Physics Department, Ben-Gurion University of the Negev,
Beer Sheva, Israel.
- October 2009 – February 2013 Senior Lecturer.
Physics Department, Ben-Gurion University of the Negev,
Beer Sheva, Israel.
- October 2006 – September 2009 Research Associate.
Department of Physics, Uni. at Stony Brook, USA.
- October 2004 – September 2006 Research Associate.
Physics Department, Uni. of Connecticut, USA.
- October 2002 – September 2004 Postdoctoral Fellow.
DESY Theory Group, Hamburg, Germany.
- March 2002 – September 2002 Postdoctoral Fellow.
Department of High Energy Physics,
Tel Aviv University, Israel.

SHORT TERM VISITORSHIPS

01.02.18 – 25.02.18 CERN Theory Division, Geneva.
26.03.18 – 05.04.18

01.10.17 – 13.10.17 SPhT, CEA Saclay, Paris, France.
24.10.15 – 29.10.15 SUNY at Stony Brook, USA.
05.12.14 – 18.12.14 Federico Santa Maria Technical University, Valparaiso, Chile.
05.07.14 – 21.07.14 University of Santiago de Compostela, Spain.
01.08.11 – 20.10.11 University of Connecticut, USA.
01.09.12 – 30.09.12 31.01.13 – 25.02.13; 24.07.13 – 14.10.13; 03.02.14 – 22.02.14
04.08.14 – 03.09.14 02.02.15 – 20.02.15; 01.09.16 – 16.10.16; 28.01.17 – 13.02.17

25.05.08 – 14.06.08 GGI, Florence, Italy.
30.03.15 – 17.04.15

28.01.08 – 15.02.08 KITP, Santa Barbara, USA.
25.03.05 – 08.04.05 Tel Aviv Uni. and Technion, Haifa, Israel.
22.04.07 – 04.05.07

19.01.05 – 22.01.05 Brookhaven National Lab, USA
09.09.03 – 12.09.03 25.07.11 – 05.08.11; 19.07.16 – 29.07.16; 13.02.17 – 18.02.17

05.09.04 – 12.09.04 SPhT, SACLAY, Paris, France.
03.07.03 – 09.07.03 CERN Theory Division, Geneva.
13.03.06 – 18.03.06 23.08.10 – 04.09.10

08.06.03 – 15.06.03 Technion, Haifa, Israel.
01.04.03 – 10.04.03 INT, Uni. of Washington, Seattle, USA.
13.11.06 – 24.11.06 07.04.08 – 17.04.08; 24.07.10 – 03.07.10; 13.07.15 – 24.07.15

14.10.02 – 25.10.02 ECT* Trento, Italy.
16.07.01 – 15.10.01 II. Institut für Theoretische Physik, Universität Hamburg.

Work for Community: Referee for *Physical Review D*, *C*, *Physical Review Letters*,
Nuclear Physics A, *Physics Letters B*, *European Physical Journal C*.

**Member of the management committee of the EU Horizon 2020 COST Action
"Theory of hot matter and relativistic heavy-ion collisions" (2016-2020).**

Member and institutional representative of the Electron Ion Collider (EIC) User Group

Organisation of Conferences:

- "Collectivity and correlations in high-energy hadron and nuclear collisions"
- Co-Chair, Aug 5th - Aug. 18th (2018), Benasque Center for Sciences, Spain.
- "Heavy ion collisions at the LHC" - Int. workshop (20 participants), Chair,
May 27th - June 1st (2015), BGU, Israel.
- "Low x " - Int. workshop (95 participants), Co-Chair,
May 29th - June 4th (2013), Rehovot-Eilat, Israel
- "LevinFest" - Int. workshop (30 participants), Oct. 3-4 (2010), Tel Aviv, Israel
- member of international advisory committee for "Low x " -series of workshops.

AWARDS

Guest Professorship Award, University of Connecticut, USA (2011);

Minerva Postdoctoral Fellowship (2004,2002) - declined;

Minerva Seed Grant (2001) - 3 month visitorship of Hamburg University.

Conference Talks

“Nonlinear Evolution for Total and Diffractive Productions in High Energy DIS”,

- invited talk, Israel Physical Society Meeting, 17 December 2001.

“Non-Linear Evolution and Parton Distributions at Low x ”,

- talk at “9th International Workshop on Deep Inelastic Scattering and QCD” (DIS 2001), Bologna, Italy, 27 Apr - 1 May 2001.

“Towards a new global QCD analysis: Low x DIS data from non-linear evolution”,

- talk at “DESY Theory Workshop”, Hamburg, Germany, 24 - 27 September 2002.
- talk at “Low x ” Workshop, Antwerpen, Belgium, 16 - 19 September 2002.

“Nuclear shadowing from non-linear evolution in DIS”,

- talk at “Coherent Effects at RHIC and LHC: Initial Conditions and Hard Probes” Workshop, ECT* Trento, Italy, 14 - 25 October, 2002.

“Phenomenology with Non-Linear QCD Evolution”,

- talk at “The first III years of heavy-ion physics at RHIC” Program, Institute for Nuclear Theory, Uni. of Washington, Seattle, USA, 01 - 10 Apr, 2003.

“Hard-Soft Pomeron Transition from QCD Saturation in the Dipole Picture”,

- talk at “11th International Workshop on Deep Inelastic Scattering and QCD”, (DIS 2003), St-Petersburg, Russia, 23 - 27 Apr, 2003.

“Quark - Antiquark Exchange in Photon Photon Scattering”,

- invited talk at “12th International Workshop on Deep Inelastic Scattering and QCD”, (DIS 2004), Strbske Pleso, Slovakia, 14 - 18 Apr. 2004.
- invited talk at “Small x and Diffraction” Workshop, Fermi National Lab, USA, 17 - 21 September 2003.

“Low x evolution beyond the Balitsky-Kovchegov equation”

- plenary talk at “Hadron Structure and QCD” Workshop, St-Petersburg, Russia, 18 - 22 May, 2004.
- talk at “Lund Small x Workshop”, DESY, Hamburg, Germany, 7 - 8 May 2004.

“Structure function extrapolation to LHC energies based on combined BK/DGLAP equations”

- invited talk at “HERA - LHC Workshop”, DESY, Hamburg, Germany, 1 - 4 June 2004.

“High energy evolution in QCD: a fresh look at the dipole model”,

- talk at “Low x ” Workshop, Prague, Czech. Rep., 15 - 18 Sept. 2004.

“New developments in the dipole model”,

- invited talk at “Classical and quantum aspects of Color Glass Condensate” Workshop, Brookhaven National Lab, USA, 07 - 11 March 2005.

“From ep to pp : high energy evolution with Pomeron loops”,

- talk at “HERA - LHC Workshop”, DESY, Hamburg, Germany, 21 - 24 March 2005.

“From dense dilute duality to self-duality of high energy QCD”

- talk at “Low x ” Workshop, Sinaia, Romania, 29 June - 02 July 2005.

“High energy evolution with Pomeron loops”,

- invited talk at the Rencontres de Moriond workshop “QCD and Hadronic interactions”, La Thuile, Italy, 18-25 March 2006.

“Towards Reggeon Field Theory in QCD”,

- invited talk at the Meeting of the International Association of Relativistic Dynamics, Uni. of Connecticut, Storrs, USA, June 10-14 2006.

- talk at Workshop “Continues advances in QCD”, Minneapolis, USA, May 10-14, 2006.
- ”*One Gluon, Two Gluons: Semi-Inclusive Observables at High Energies*”,
- talk at INT program “From RHIC to LHC: Achievements and Opportunities”, Seattle, USA, Nov. 20th 2007.
- ”*From Dense-Dilute Duality to Self-Duality of High Energy QCD*”,
- talk at INT program “From RHIC to LHC: Achievements and Opportunities”, Seattle, USA, Nov. 13th 2007.
- ”*Semi-inclusive observables at High Energies*”
- invited talk at “6th Small x and Diffraction” workshop: FERMILAB, March 28 - 31 2007.
- ”*On Diffraction and JIMWLK evolution*”,
- talk at “15th International Workshop on Deep Inelastic Scattering and QCD”, (DIS 2007) Munich, Germany, March 15-21, 2007.
- ”*Multi-gluon production at high energies*”,
- talk at “15th International Workshop on Deep Inelastic Scattering and QCD”, (DIS 2007) Munich, Germany, March 15-21, 2007.
- ”*High energy evolution from the wave-functional approach*”,
- talk at “Low x ” Workshop, Helsinki, Finland, Aug. 27-31, 2007.
- ”*Towards new relativistic hydrodynamics from AdS/CFT*”,
- talk at “Non-Perturbative Methods in Strongly Coupled Gauge Theories” workshop, GGI, Florence, Italy, June 10th, 2008.
 - talk at “From strings to things: String theory methods in QCD and hadronic physics”, program INT, Seattle, USA, May 5th, 2008.
 - invited talk at “Understanding QGP through Spectral Functions and Euclidean Correlators”, RIKEN Workshop, Brookhaven National Lab., USA, Apr. 23-25, 2008.
 - talk at “Nonequilibrium Dynamics in Particle Physics and Cosmology” program, KITP, Santa Barbara, USA, Feb. 12th, 2008.
- ”*Improved hydrodynamics from AdS/CFT*”,
- talk at ”Excited QCD 2010” workshop, Stara Lesna, Slovakia, 31 Jan - 6 Feb 2010.
 - invited talk at Workshop on the ”Fluid-Gravity correspondence”, LMU, Munich, Germany, Sept. 2th-7th, 2009.
- ”*E/M radiation from QGP with chromo-magnetic monopoles*”,
- talk at ”Hard Probes 2010” workshop, Eilat, Israel, Oct. 10th-15th, 2010.
 - talk at the CERN theory institute program on ”The first heavy ion collisions at the LHC”, CERN, Aug. 30th, 2010.
 - talk at the INT program ”Quantifying the properties of hot QCD matter”, INT, Seattle, June 28th, 2010.
- ”*Two-particle correlations in high energy collisions*”,
- invited talk at ”Low x 2011” workshop, Santiago de Compostela, Spain, June 5th -10th, 2011.
- ”*Angular correlations from QCD evolution*”,
- invited talk at ”Low x 2012” workshop, Paphos, Cyprus, June 27th-July 1st, 2012,
- ”*Two-particle correlations from high energy QCD*”,
- invited talk at ”Light Cone 2012”, Kracow, Poland, July 7th-13th, 2012.
- ”*Reggeon Field Theory from JIMWLK/KLWMIJ evolution*”,
- invited talk at ”Low x 2013” workshop, Rehovot-Eilat, Israel, May 30th-July 4th, 2013,

"Reggeon Field Theory in QCD",

- invited talk at "QCD Landscape of the Nucleon and Atomic Nuclei" program, Lawrence Berkeley Nat. Lab, Aug. 12-16, 2013.

"Long range two-particle correlations and initial state",

- invited talk at 6th International Conference on "Hard and Electromagnetic Probes of High-Energy Nuclear Collisions", Cap Town, South Africa, Nov. 4-8, 2013.

"JIMWLK evolution at NLO",

- invited talk at XIth International Conference on "Quark Confinement and the Hadron Spectrum", St. Petersburg, Russia, September 8-12th, 2014.
- invited talk at "Low x 2014" workshop, Kyoto, Japan, June 17-21, 2014.

"All order linearized hydrodynamics from fluid/gravity correspondence",

- talk at "Gauge/Gravity Duality 2015" International Conference, Florence, Italy, Apr. 13- 17, 2015.
- talk at "Intersection Between QCD and Condensed Matter" school, Schladming, Austria, March 1- 6, 2015.
- invited talk at XIth International Conference on "Quark Confinement and the Hadron Spectrum", St. Petersburg, Russia, September 8-12th, 2014.

"JIMWLK evolution at NLO",

- invited talk at XXIIIrd International Workshop on "Deep Inelastic Scattering", Dallas, Apr. 27th- May 1st, 2015.
- invited talk at International Workshop on "Heavy Ion Collisions at the LHC", Beer Sheva, May 27th - June 1st, 2015.

"Two-particle correlations and Entanglement Entropy in CGC",

- invited talk at INT program "Correlations and Fluctuations in p+A and A+A Collisions", Seattle, July 6th- 30th, 2015.

"All order linearized hydrodynamics from fluid/gravity correspondence",

- invited talk at "Continuous advances in QCD" International Conference, Minneapolis, USA, May 12- 15, 2016.

"Entanglement entropy in CGC",

- talk at "The 3rd International Conference on the Initial Stages in High-Energy Nuclear Collisions", Lisbon, Portugal, May 23rd-27th, 2016.

"Light Cone approach to High Energy QCD"

- invited talk at "Quarks" International Conference, Pushkin, Russia, May 29th - June 4th, 2016.

"High energy QCD at NLO"

- invited talk at "High energy QCD and Diffraction" , Kracow, Poland, Dec. 05th - 7th, 2016.

"Anomalous transport from Holography"

- invited talk at "QCD in Finite Temperature and Heavy-Ion Collisions", Brookhaven Nat. Lab., USA, Feb. 13th -15th, 2017.

"From light-cone wave function to NLO JIMWLK"

- invited talk at "Saturation: Recent Developments, New Ideas and Measurements", Brookhaven Nat. Lab., USA, Apr. 26th -28th, 2017.

"Initial state correlations in the CGC wave function"

- invited talk at "6th International Conference on New Frontiers in Physics (ICNFP 2017)"

Crete, Greece, Aug 8th –14th, 2017.

"Transport from the Fluid/Gravity Correspondence"

- invited plenary talk at "4th International Conference on the Initial Stages in High-Energy Nuclear Collisions", Krakow, Poland, Sept 12th – 16th, 2017.

"Entanglement Entropy in High Energy Collisions"

- talk at "8th International Conference on Physics Opportunities at an Electron-Ion-Collider", Regensburg, Germany, March 19th – 23rd, 2018

Seminar talks

"Parton - Hadron Duality in QCD Sum Rules: Quantum Mechanical Example",

- seminar talk, Technion, Haifa, Israel, 25 June 1997.

"Nonlinear Evolution for Total and Diffractive Productions in High Energy DIS",

- seminar talk, Tel Aviv Uni., Israel, 20 January 2002.
- seminar talk, University of Florida, Gainesville, USA, 21 November 2001.
- seminar talk, Brookhaven National Lab., USA, 20 November 2001.
- seminar talk, Carnegie Mellon Uni., Pittsburgh, USA, 16 November 2001.
- seminar talk, SUNY, Stony Brook, USA, 13 November 2001.
- seminar talk, Technion, Haifa, 3 November 2001.
- seminar talk, DESY, Hamburg, Germany, 2 October 2001.

"Phenomenology with Non-Linear QCD Evolution",

- seminar talk, DESY, Hamburg, Germany, 14 April, 2003.

"Reggeons in QCD",

- seminar talk, Technion, Haifa, Israel, 09 June, 2003.

"Nuclear Shadowing from High Density QCD",

- seminar talk, CERN, 07 July, 2003.

"New Global DIS Analysis and Hard - Soft Pomeron Transition",

- seminar talk, SUNY, Stony Brook, USA, 11 September 2003.
- seminar talk, Brookhaven National Lab, USA, 10 September 2003.

"Quark - Antiquark Exchange in Photon Photon Scattering",

- seminar talk, IPPP Durham, UK, 24 Nov. 2003.
- seminar talk, Heidelberg Uni., Germany, 05 November 2003.
- seminar talk, Argonne National Lab, USA, 16 September 2003.
- seminar talk, Uni. of Minnesota, Minneapolis, USA, 15 September 2003.

"Low x evolution beyond the Balitsky-Kovchegov equation"

- seminar talk, Brookhaven National Lab, USA, 16 Oct. 2004.
- seminar talk, Department of Physics, University Paris VI, France, 10 Sept. 2004.
- seminar talk, SPhT, SACALY, Paris, France, 06 Sept. 2004.

"Reggeons in QCD",

- seminar talk, Uni. of Connecticut, USA, 06 December 2004.

"High energy evolution in QCD: a fresh look at the dipole model",

- seminar talk, the Ohio State University, Columbus, USA, 27 Jan. 2005.
- seminar talk, Brookhaven National Lab, USA, 21 Jan. 2005.

“High energy evolution in QCD: a fresh look at the dipole model”,

- seminar talk, Uni. of Connecticut, USA, 25 April 2005.
- seminar talk, Technion, Haifa, Israel, 04 April 2005.
- seminar talk, Tel Aviv Uni., Israel, 30 March 2005.

“A fresh look at high energy evolution in QCD”,

- seminar talk, Jefferson National Lab., USA, 09 May 2005.

“From DIS to high energy hadron - hadron collisions”

- seminar talk, Brookhaven National Lab, USA, 26 July 2005.

“From DIS to high energy hadron - hadron collisions: towards a Reggeon field theory in QCD”

- seminar talk, CERN, 16 March 2006.
- seminar talk, Iowa State Uni., Ames, USA, 09 Feb. 2006.
- seminar talk, SUNY, Stony Brook, USA, 22 January 2006.

“From DIS to Hadron-Hadron Collisions: towards Reggeon Field Theory in QCD”,

- seminar talk, Uni. of Maryland, USA, 13 Apr. 2006.

“High energy scattering in QCD: from DIS to Hadron-Hadron collisions”,

- seminar talk, Los Alamos National Lab., USA, 28 Apr. 2006.

“Yin and Yang of high energy QCD”

- seminar talk, Brookhaven National Lab, USA, 28 July 2006.

“High energy evolution from the Light Cone Hamiltonian”,

- seminar talk, Uni. of Illinois, Chicago, USA, 25 March 2007.
- seminar talk, Uni. of Connecticut, USA, 3 Nov. 2006.

“Heavy Ion Collisions: from Navier Stokes equation to AdS black holes and back again”

- seminar talk, Ben Gurion Uni., Beer Sheva, Israel, 1 May 2007.
- seminar talk, Technion, Haifa, Israel, 30 April 2007.
- seminar talk, Tel Aviv Uni., Israel, 27 April 2007.
- seminar talk, Uni. of Connecticut, USA, 6 April 2007.

“Multigluon production and CGC”

- seminar talk, Brookhaven National Lab, USA, 30 June 2007.

“On Heavy Ion Collisions: from relativistic hydrodynamics to AdS black holes and back again”

- seminar talk, Cornell Uni., USA, 26 March 2008.

“sQGP from Holography”

- seminar talk, Uni. of Connecticut, USA, 10 Nov. 2008.

“Improved hydrodynamics from AdS/CFT”

- seminar talk, The Frankfurt Institute for Advanced Studies, Germany, Sept. 13th, 2010.
- seminar talk, Uni. of Wuppertal, Germany, Sept. 7th, 2010.
- seminar talk, Ben Gurion Uni., Beer Sheva, Israel, Nov. 12th, 2009.
- seminar talk, Uni. of Connecticut, USA, 05 Jun. 2009.

“Angular correlations in high energy collisions”,

- seminar talk, Baruch College, CUNY, New York, USA, 04 Oct. 2011.
- seminar talk, Uni. of Connecticut, USA, 12 Sept. 2011.
- seminar talk, SUNY, Stony Brook, USA, Aug. 1st 2011.
- seminar talk, Brookhaven Nat. Lab, USA, July 27th 2011.
- seminar talk, joint nuclear seminar, Tel Aviv, Israel, Jan. 14th 2011.

"Anomalous Hydrodynamics",

- seminar talk, Uni. of Connecticut, USA, 5 Sept. 2011.

"Classicalization and Unitarity",

- seminar talk, Ben Gurion Uni., Beer Sheva, Israel, Oct. 29th 2012.
- seminar talk, SUNY, Stony Brook, USA, Sept. 26th 2012.
- seminar talk, Uni. of Connecticut, USA, Sept. 23rd 2012.

"Towards Reggeon Field Theory in QCD",

- seminar talk, Brookhaven Nat. Lab, USA, July 26th 2013.
- Nuclear Physics Colloquium, Frankfurt Institute of Advanced Studies, Germany, July 11th, 2013.
- seminar talk, Kracow, July 3rd, 2013.
- seminar talk, Joint High Energy Seminar, Neve Shalom, Israel, Nov. 13th 2012.

"Angular correlations ("ridge") in high energy QCD",

- seminar talk, University of Santiago de Compostela, Spain, July 17th 2014.
- seminar talk, Ohio State University, Columbus, USA, Oct. 3rd 2013.

"All order linearized hydrodynamics from fluid/gravity correspondence",

- seminar talk, Uni. of Connecticut, USA, Aug. 20th 2014.

"High energy QCD evolution at NLO",

- seminar talk, Federico Santa Maria Technical University, Valparaiso, Chile, Dec 12th, 2014.

"Initial state correlations, entanglement entropy and all that",

- seminar talk, SUNY st Stony Brook, USA, Oct. 27th, 2015.
- seminar talk, Brookhaven National Lab, USA, Aug 14th, 2015.

"All order linearized hydrodynamics from fluid/gravity correspondence",

- seminar talk, MIT, USA, Apr. 13th, 2016,
- seminar talk, Boston University, USA, Apr. 8th, 2016,
- seminar talk, Brown University, USA, March 9th, 2016,
- seminar talk, New York University, USA, March 2nd, 2016,
- seminar talk, Cornell University, USA, Feb 3rd, 2016,

"Initial state correlations, entanglement entropy and all that",

- seminar talk, L. Berkley National Lab., Berkley, USA, Apr. 29th, 2016.

"Transport functions from fluid/gravity correspondence",

- seminar talk, SUNY st Stony Brook, USA, Jul. 27th, 2016.
- seminar talk, Brookhaven National Lab, USA, Jul 22th, 2016,

"High energy QCD at NLO"

- seminar talk, Brookhaven National Lab, USA, Feb. 17th, 2017.

"Initial state correlations in the CGC wave function"

- seminar talk, Saclay, Paris, France, Oct. 8th, 2017.

"Entanglement Entropy in Heavy Ion Collisions"

- seminar talk, Tel Aviv University, Jan. 23rd, 2018.