

October 16, 2021

## CURRICULUM VITAE

**Michael Lublinsky**

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### 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

06.09.21 – 16.09.21 National Centre for Nuclear Research, Warsaw, Poland.  
05.12.19 – 15.12.19

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  
02.09.18 – 03.09.18 05.02.19 – 25.02.19; 25.08.19 – 20.09.19; 01.02.20 – 18.02.20

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*.

**Former 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:**

- "The VI-th International Conference on the Initial Stages of High-Energy Nuclear Collisions" , Jan 10th - Jan. 15th (2021), Weizmann Institute of Sciences, Israel.
- "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.