

Dept. of Physics and Astronomy  
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**Field of Research** Physics of multiparticle production. Ultrarelativistic heavy-ion collisions.

## Experience

- Professor** (with tenure) **Wayne State University** (Department of Physics and Astronomy)  
 2004 to present
- Teaching general and specialized physics courses
- Associate Professor**  
 1999 to 2004
- Member of STAR (RHIC, BNL) and ALICE (LHC, CERN) Collaborations
  - Principal author of more than 25 STAR papers, including first STAR (and RHIC) publication.
  - Discovery of large elliptic flow at RHIC, evidence for sQGP (perfect liquid)
  - Proposed constituent quark scaling of elliptic flow - evidence for deconfinement
  - Proposal and first measurements of correlations in support of local strong parity violation
  - Proposal, first measurements, and discovery of the global polarization in heavy-ion collisions
  - Principal author of the first ALICE paper – measurement of elliptic flow at LHC
- Special Scientist** **Lawrence Berkeley National Laboratory**  
 1998 to 1999
- Event-by-Event physics of nuclear collisions at SPS (NA49) and RHIC (STAR) energies
  - Anisotropic flow and two-particle correlation analyses of NA49 (SPS, CERN) data
- Visiting Scientist** **University of Heidelberg**  
 1996 to 1998
- Study of radial and directed transverse flow in nucleus collisions
  - Anisotropic flow analyses of the E877 (AGS, BNL) and the NA45 (SPS, CERN) data
- Visiting Scientist** **University of Pittsburgh**  
 1992 to 1996
- Development methods for anisotropic flow measurements in nuclear collision
  - Discovery of in-plane elliptic flow at AGS BNL.
  - Development methods for femtosopic measurements in presence of anisotropic flow
- Exchange Visitor** **Theoretical Physics Institute, University of Minnesota**  
 1989 to 1990
- Development of Split-Bin Correlation Function method for study of intermittency
- Associate Dean** **Faculty of Theoretical and Experimental Physics, Moscow Engineering Physics Institute** (~ 300 faculty, 1800 students)  
 1983 to 1992
- Associate Professor** **Moscow Engineering Physics Institute** (Department of Theoretical Physics)  
 1988 to 1998
- Teaching of general courses in theoretical physics
  - Research on anisotropies and asymmetries in particle production in nuclear collisions
- Assistant Professor**  
 1983 to 1988
- Study of multiparticle production off nuclei and  $l^+l^-$  signals of QGP
  - Development of quark combinatorics method
- Junior Scientist**  
 1980 to 1983
- Study of multiparticle production in parton model

## Education

Ph.D in Physics  
 (Candidate of sciences,  
 Physics & Mathematics)  
 Diploma (with honor)

**Moscow Engineering Physics Institute**, Moscow, Russia. February 1980.  
*Intranuclear parton cascades and multiparticle production in hadron-nucleus collisions*

**Moscow Engineering Physics Institute**, March 1976.  
*Generalized Vector Dominance Model and lepton-nucleus collisions*

- **Moscow Youth (Komsomol) Prize in Science** (1985) for development of *Quark-parton picture of multiparticle production*
- Elected **Fellow of American Physical Society**, 2008, for *numerous seminal contributions to the methods and interpretation of collective flow in relativistic nuclear collisions*
- **Richard J. Barber Faculty Recognition Award**, 2011
- Inducted to **Wayne State Academy of Scholars**, 2012
- American Physical Society Outstanding Referee, 2015
- WSU Board of Governors **Distinguished Faculty Fellow**, 2021

## Awards