

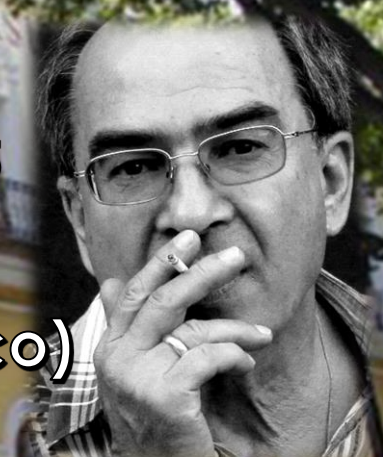
Benemérita Universidad Autónoma de Puebla

Symposium

“Physical Properties of Periodic and Disordered Nanostructures”

Puebla, Pue., Mexico, November 25-27, 2015

In Celebration of the 70th birthday of
Prof. Dr. Nykolay Makarov (BUAP, México)



Invited speakers:

- Valerii Yampolskyi (Institute for Radiophysics and Electronics, NASU, Kharkov, Ukraine)
- Arkadii Krokhin (University of North Texas, USA)
- Felix Izrailev (Instituto de Física, BUAP, México)
- Aleksander Ilinskii (Ioffe Physical Technical Institute, Saint Petersburg, Russia)
- Borys Ivanov (Institute of Magnetism, Kiev, Ukraine)
- Tatiana Prutskij (Instituto de Ciencias, BUAP, Puebla, México)
- Viktor Vislouxh (Universidad de las Américas, Puebla, México)
- Rafael Méndez (Instituto de Ciencias Físicas, UNAM, Cuernavaca, Morelos, México)
- Luca Tessieri (Instituto de Física y Matemáticas, UMSNH, Morelia, México)
- Alejandro Palma Almendra (Instituto de Física, BUAP, Puebla, México)
- Manuel Rendón-Marín (Facultad de Ciencias de la Electrónica, BUAP, Puebla, México)
- Eduardo Jonathan Torres-Herrera (Instituto de Física, BUAP, Puebla, México)
- Carolina Romero Salazar (Escuela de Ciencias, UABJO, Oaxaca, México)
- Juan Francisco Rivas Silva (Instituto de Física, BUAP, Puebla, México)
- Ana Lilia González Ronquillo (Instituto de Física, BUAP, Puebla, México)
- Elías López Cruz (Instituto de Física, BUAP, Puebla, México)
- Konstantin Klyukin (Saint-Petersburg State University, Saint Petersburg, Russia)
- Anatolii Konovalenko (Instituto de Física, BUAP, Puebla, México)

□ Symposium Chair: *Felipe Pérez-Rodríguez* (Instituto de Física, BUAP, México)

Supporters

Vicerrectoría de Investigación y Estudios de Posgrado, Instituto de Ciencias, Instituto de Física, y Cuerpo Académico “Materiales Avanzados”, de la Benemérita Universidad Autónoma de Puebla.

Date, place and time:

- **Wednesday 25**
 - Physics-Mathematics Faculty Auditorium, FCFM, 10:00 – 14:00 hrs.
- **Thursday 26**
 - Chemistry Center Auditorium, ICUAP, 10:00 – 13:00 hrs.
 - Physics-Mathematics Faculty Auditorium, FCFM, 16:00 – 18:00 hrs.
- **Friday 27**
 - Chemistry Center Auditorium, ICUAP, 10:00 – 14:00 hrs.



More information: www.ifuap.buap.mx/eventos/eventos.html

Contact e-mail: fperez@ifuap.buap.mx



BUAP

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(BUAP, México)

P R O G R A M

Wednesday 25

Place: Physics-Mathematics Faculty Auditorium, FCFM

10:00-10:20	Opening ceremony
10:20-11:00	Valerii Yampolskyi (Institute for Radiophysics and Electronics, NASU, Kharkov, Ukraine) “Superposition Principle for Nonlinear Josephson Plasma Waves in Layered Superconductors”.
11:00-11:30	Manuel Rendón-Marín (Facultad de Ciencias de la Electrónica, BUAP, Puebla, México) “The Flattening-boundaries method for rough waveguides with Neumann boundary conditions”.
11:30-12:00	Coffee Break
12:00-12:40	Rafael Méndez (Instituto de Ciencias Físicas, UNAM, Cuernavaca, Morelos, México) “Transport of elastic waves in one and two dimensions”.
12:40-13:20	Borys Ivanov (Institute of Magnetism, Kiev, Ukraine) “Antiferromagnets: spin statics, topology, and dynamics”.
13:20-14:00	Francisco Rivas Silva (Instituto de Física, BUAP, Puebla, México) “Some central aspects in the development of Condensed Matter Computational Physics”.
14:00-14:30	Konstantin Klyukin (Saint-Petersburg State University, Saint Petersburg, Russia) “DFT calculation of hydrogen diffusion and phase transformation in magnesium”.

Thursday 26

Place: Chemistry Center Auditorium, ICUAP

10:00-10:30	Elías López Cruz (Instituto de Física, BUAP, Puebla, México) “Some professional recollections about our work related to Prof. Makarov”.
10:30-11:10	Viktor Vislouch (Universidad de las Américas, Puebla, México) “Anderson localization in parity-time symmetrical waveguide arrays”.
11:10-11:50	Eduardo Jonathan Torres-Herrera (Instituto de Física, BUAP, Puebla, México) “Anomalous Anderson localization in one-

	dimensional metamaterials”.
11:50-12:30	Luca Tessieri (Instituto de Física y Matemáticas, Univ. Michoacana de San Nicolás Hidalgo, Morelia, México) “The band-centre anomaly in the 1D Anderson model with correlated disorder”.

Place: Physics Institute Auditorium, IFUAP

12:30-13:00	Coffee Break
13:00-13:40	Arkadii Krokhin (University of North Texas, Denton, Texas, USA) “Electrostatic Enhancement of Light Emitted by Semiconductor Structures”.
13:40-14:20	Felix Izrailev (Instituto de Física, BUAP, Puebla, México) “Spectral and Transport Properties of Matched Quarter Stacks”.

Place: Physics-Mathematics Faculty Auditorium, FCFM

16:00-16:40	Tatiana Prutskij (Instituto de Ciencias, BUAP, Puebla, México) “Atomic ordering in semiconductor III-V alloys”.
16:40-17:10	Ana Lilia González Ronquillo (Instituto de Física, BUAP, Puebla, México) “Theoretical modeling of the optical properties of plasmonic nanoparticles and comparison with experimental observations”.
17:10-17:40	Carolina Romero Salazar (Escuela de Ciencias, Universidad Autónoma Benito Juárez de Oaxaca, Oaxaca, México) “The role of irregular magnetic flux fronts in the critical state stability of type-II superconductors”.
17:40-18:20	Felipe Pérez Rodríguez (Instituto de Física, BUAP, Puebla, México) “Infrared nonlocal response of metal-dielectric superlattices”.

Friday 27

Place: Chemistry Center Auditorium, ICUAP

10:00-10:40	Aleksander Ilinskii (Ioffe Physical Technical Institute, Saint Petersburg, Russia) “Transición de fase de Mott-Peierls en VO₂”.
10:40-11:10	Coffee Break
11:10-11:50	Alejandro Palma Almendra (Instituto de Física, BUAP, Puebla, México) “OPERATOR ALGEBRA: From Franck-Condon to Floquet Theory”.
11:50-12:20	Anatolii Konovalenko (Instituto de Física, BUAP, Puebla, México) “Homogenization of piezoelectromagnetic crystals”.
12:20-12:40	Closing ceremony