

# 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)

## P R O G R A M

**Wednesday 25**

**Place: Physics-Mathematics Faculty Auditorium, FCFM**

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

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

	dimensional metamaterials”.
<b>11:50-12:30</b>	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**

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

**Place: Physics-Mathematics Faculty Auditorium, FCFM**

<b>16:00-16:40</b>	Tatiana Prutskij (Instituto de Ciencias, BUAP, Puebla, México) “Atomic ordering in semiconductor III-V alloys”.
<b>16:40-17:10</b>	Ana Lilia González Ronquillo (Instituto de Física, BUAP, Puebla, México) “Theoretical modeling of the optical properties of plasmonic nanoparticles and comparison with experimental observations”.
<b>17:10-17:40</b>	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”.
<b>17:40-18:20</b>	Felipe Pérez Rodríguez (Instituto de Física, BUAP, Puebla, México) “Infrared nonlocal response of metal-dielectric superlattices”.

**Friday 27**

**Place: Chemistry Center Auditorium, ICUAP**

<b>10:00-10:40</b>	<b>Aleksander Ilinskii (Ioffe Physical Technical Institute, Saint Petersburg, Russia) “Transición de fase de Mott-Peierls en VO<sub>2</sub>”.</b>
<b>10:40-11:10</b>	<b>Coffee Break</b>
<b>11:10-11:50</b>	Alejandro Palma Almendra (Instituto de Física, BUAP, Puebla, México) “OPERATOR ALGEBRA: From Franck-Condon to Floquet Theory”.
<b>11:50-12:20</b>	Anatolii Konovalenko (Instituto de Física, BUAP, Puebla, México) “Homogenization of piezoelectromagnetic crystals”.
<b>12:20-12:40</b>	<b>Closing ceremony</b>