

# The Faculty of Physics, Babeş-Bolyai University

invites all those who wish to participate in two online seminars held by **Prof Dr N.V. Antonenko**, Deputy director of Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Russian Federation, and **Dr T.M. Shneidman**, Senior Scientist within the same laboratory.

The presentations are intended for teaching and scientific staff of the University who wish to collaborate with JINR and at the undergraduate and graduate students.



# UBB

6 - 7  
OCTOBER  
12:00



6 October  
12:00

## Prof Dr N.V. ANTONENKO

Deputy director, Bogoliubov Laboratory of Theoretical Physics

### Introduction to Heavy-Ion Physics

Overview of the main activities of the Joint Institute for Nuclear Research.

Role of theory in supporting experimental research.

Introduction to the reactions of heavy ions at low energies.

Derivation of the Langevin equation for describing collisions of heavy ions.



7 October  
12:00

## Dr T.M. SHNEIDMAN

Senior Scientist, Bogoliubov Laboratory of Theoretical Physics

### Introduction to the theory of nuclear structure

Main concepts and models.

Characteristics of the ground and excited nuclear states.

Qualitative understanding of the properties of atomic nuclei.

Liquid drop model and the shell model as theoretical basis

to understand the macroscopic and microscopic issues in nuclei.



Meeting ID: 898 3266 2558

Video Conferencing Passcode: fizica-21