

## SEMINAR

### STRUCTURE AND PROPERTIES OF MATERIALS AT EXTREME PRESSURE

organized within the NAWA STER project of the warsaw4phd Doctoral School

MONDAY 15 APRIL		
1	MON 12:00 - 12:45	Lecture 1. <u>Leonid Dubrovinsky</u> (University of Bayreuth, Bayreuth, Germany) <b>Methodology of high pressure synthesis and structural studies of novel materials</b>
TUESDAY 16 APRIL		
1	TUE 12:00 - 12:15	Short introductory talk (online) <u>Andrzej Katrusiak</u> (Wydział Chemii, Uniwersytet im. Adama Mickiewicza, Poznań) <b>Counterintuitive Volume-Pressure Relations</b>
2	TUE 12:15 - 12:30	Short introductory talk <u>Agata Kamińska</u> (Institute of Physics, Polish Academy of Sciences) <b>Application of high-pressure spectroscopy in the study of radiative recombination processes in semiconductor structures and transition metals/rare earth ions doped materials</b>
break 12:30-12:45		
3	TUE 12:45 - 13:30	Lecture 2. <u>Leonid Dubrovinsky</u> (University of Bayreuth, Bayreuth, Germany) <b>High pressure oxides with unusual crystal structures and properties</b>
4	TUE 13:30 - 13:45	Short talk <u>Izabela Grzegory</u> (Institute of High Pressure Physics, Polish Academy of Sciences) <b>GaN – a high pressure crystal</b>
WEDNESDAY 17 APRIL		
1	WED 11:00 - 11:15	Short introductory talk <u>Krzysztof Woźniak</u> (Department of Chemistry, University of Warsaw, Poland) <b>Quantum Crystallography of Crystals under Pressure</b>
2	WED 11:15 - 11:30	Short introductory talk <u>Ryszard Sobierajski</u> (Institute of Physics PAS, Warsaw) <b>X-ray diffraction experiments under high pressure at XFEL (Hamburg)</b>
break 11:30 - 11:45		
3	WED 11:45 - 12:30	Lecture 3. <u>Leonid Dubrovinsky</u> (University of Bayreuth, Bayreuth, Germany) <b>New classes of binary compounds - polynitrides, polycarbides, polyhalides, and polyhydrides</b>
4	WED 12:30 - 13:00	round table discussion: "New horizon of high pressure research in solid state physics" and/or "Could AI replace experiment in high pressure research?" (the proposed title may be discussed)

This event is supported by the Polish National Agency for Academic Exchange,  
grant no. BPI/STE/2021/1/00034/U/00001

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IP PAS Conference is inviting you to a scheduled Zoom meeting.

Topic: STRUCTURE AND PROPERTIES OF MATERIALS AT EXTREME PRESSURE

Time: Apr 15, 2024 12:00 Warsaw

Apr 15, 2024 12:00

Apr 16, 2024 12:00

Apr 17, 2024 11:00

Please download and import the following iCalendar (.ics) files to your calendar system.

Daily:

[https://zoom.us/meeting/tJ0tde2tqzkrHNKlgsHFxBmRmehIuVfLWLl0/ics?icsToken=98tyKuChrjkuH9GXsR-BRox5AojLO\\_wmHpcgo12kBj2KwZLQA7E0-dKG6dJFvTn](https://zoom.us/join/https://zoom.us/meeting/tJ0tde2tqzkrHNKlgsHFxBmRmehIuVfLWLl0/ics?icsToken=98tyKuChrjkuH9GXsR-BRox5AojLO_wmHpcgo12kBj2KwZLQA7E0-dKG6dJFvTn)

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