

INSTYTUT FIZYKI POLSKIEJ AKADEMII NAUK



Sesja sprawozdawcza z działalności naukowej w roku 2019

13 lutego 2020

początek o godzinie 9:50



al. Lotników 32/46, 02-668 Warszawa
Aula im. Leonarda Sosnowskiego



**SESJA SPRAWOZDAWCZA
Z DZIAŁALNOŚCI NAUKOWEJ INSTYTUTU FIZYKI PAN
W ROKU 2019**

**REPORTING SESSION
OF RESEARCH ACTIVITIES OF THE INSTITUTE OF PHYSICS PAN
IN 2019**

13.02.2020

Prof. Sosnowski Assembly Hall, building no. 1



AGENDA

09:50 – 10:00

prof. dr hab. Roman Puźniak, Director of the Institute of Physics PAN

Opening address

10:00 – 10:30 (ON 5)

dr hab. Michał Matuszewski, prof. IF PAN

Josephson vortices in a polariton superfluid

10:30 - 11:00 (ON 6)

dr Marcin Wysokiński

Topological properties of multilayers and surface steps in the SnTe material class

11:00 – 11:30 (ON 1)

dr Krzysztof Dybko

Differential conductance spectroscopy of topological materials

11:30 – 12:00 (SL 2)

prof. dr hab. Jerzy Wróbel

Crossings of EDGE channels in the quantum Hall effect regime

dr Marek Foltyn

Flipping-coin experiment to study switching in Josephson junctions and superconducting wires



12:00 – 12:30 (SL 4)

mgr Łukasz Mioduszewski-Crawford

Phase diagram for polyglutamine droplet formation

dr Belisa de Aquino

The networks of the inter-basin traffic in intrinsically disordered proteins

12:30 – 13:15 LUNCH BREAK

13:15 – 13:45 (ON 3)

prof. dr hab. Andrzej Szewczyk

Magnetic susceptibility and phase transitions in LiNiPO_4

13:45 – 14:15 (ON 4)

mgr Yongjie Wang

Spectroscopic properties and martensitic phase transition of $\text{Y}_4\text{Al}_2\text{O}_9:\text{Ce}$ single crystals under high pressure

mgr Agnieszka Pieniążek

Growth and optical properties of $\text{ZnO}/\text{Zn}_{1-x}\text{Mg}_x\text{O}$ quantum well on ZnO microrods

14:15 – 14:45 (SL 1)

dr hab. Sławomir Kret, prof. IF PAN

Enhanced ferromagnetism in cylindrically confined MnAs nanocrystals embedded in wurtzite GaAs nanowire shells



14:45 – 15:15 (ON 2)

dr Michał Ławniczak

Non-weyl microwave graphs

prof. dr hab. Zbigniew Kisiel

Laboratory spectroscopy and radioastronomy: detection of interstellar CH₃NCO, urea and CH₃D

15:15 – 15:45 (SL 3)

dr Małgorzata Szymura

Influence of copper dopants on the photoluminescence properties of nanostructures

15:45 – 16:00

dr hab. Grzegorz Grabecki, prof. IF PAN, Deputy Director for Scientific Affairs

Summary of the Institute's scientific activities in 2019

16:00 – 17:30 POSTER SESSION