

Program of the IEE SAS Annual Seminar 2018

8:28 – 8:30	Opening remarks	Chair: V. Cambel
	Department of Superconductors	Chair: M. Grajcar
8:30 – 8:55	Presentation of research topics	
8:55 – 9:00	Discussion	
9:00 – 9:15	P. Kováč: <i>Ultralight superconducting wire based on Mg, B, Ti and Al</i>	
9:15 – 9:30	A. Rosová: <i>Effects of high temperature HITEMAL annealing</i>	
9:30 – 9:45	M. Kapolka: <i>Demagnetization of Cubic Gd-Ba-Cu-O Bulk Superconductor by Crossed-Fields</i>	
9:45 – 10:00	E. Seiler: <i>Critical current density of coated conductors determined from rescaled magnetic moment at temperatures close to 77 K</i>	
	Department of III-V Semiconductors	Chair: G. Vanko
10:10 – 10:35	Presentation of research topics	
10:35 – 10:40	Discussion	
10:40 – 10:55	S. Hasenöhrl: <i>Generation of hole gas in non-inverted InAl(Ga)N/GaN heterostructures</i> (presented by J. Kuzmík)	
10:55 – 11:10	P. Chauhan: <i>Effect of temperature and carrier gas on the properties of thick InAlN layer</i>	
11:10 – 11:25	E. Dobročka: <i>Non-conventional scans in high-resolution X-ray diffraction analysis of epitaxial systems</i>	
11:25 – 11:40	J. Novák: <i>Nanostructures based on III-V semiconductors</i>	

11:40 – 12:30 Lunch break

	Department of Physics and Technology at Nanoscale	Chair: E. Pardo
12:30 – 12:55	Presentation of research topics	
12:55 – 13:00	Discussion	
13:00 – 13:15	A. Mošková: <i>States-conserving Altshuler-Aronov density of states</i>	
13:15 – 13:30	M. Precner: <i>Evolution of Metastable Defects and Its Effect on the Electronic Properties of MoS₂ Films</i>	
13:30 – 13:45	T. Ščepka: <i>Ferromagnetic resonance study of sputtered Pt/Co/Pt multilayers</i>	
13:45 – 14:00	K. Frohlich: <i>HfOx- and TaOx-based Resistive Switching Structures for Realization of Minimum and Maximum Functions</i>	
	Department of Microelectronics and Sensors	Chair: M. Ľapajna
14:10 – 14:35	Presentation of research topics	
14:35 – 14:40	Discussion	
14:40 – 14:55	N. Gál: <i>Simulation of Resistance Anomalies at Superconducting Transition of N/S/F heterostructures</i>	
14:55 – 15:10	M. Sojková: <i>Horizontally and vertically aligned MoS₂ films grown on different substrates</i>	
15:10 – 15:25	Z. Zápražný: <i>Nanomachining technology of active surfaces for new generation of X-ray crystal optics</i>	
15:30 – 16:00	Meeting of the Scientific Board	
16:00 – 20:00	Announcement of Best paper awards, Buffet dinner	