

# PCFES 2018 - TIME TABLE

	Wed 4 July	Thu 5 July	Fri 6 July	Sat 7 July
08:50-08:55	<b>Opening PCFES 2018</b> <b>S. Mašková</b>	<b>Theory</b> <b>Chair: L. Sandratskii</b>	<b>Hydrides+Oxides</b> <b>Chair: K. Nhu-Tarnawska</b>	<b>Ce-compounds</b> <b>Chair – K. Gofryk</b>
	<b>TOKIMEKI 2018</b>			
08:55-09:00	<i>Opening - F. Honda</i>			
09:00-09:30	D. Aoki	H. Harima	<b>K. Gofryk</b> (invited)	H. Zakir
09:30-10:00	D. Braithwaite	R. Radwanski	K. Miliyanchuk	H. Sakai
10:00-10:30	W. Knafo	<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>
10:30-11:00	<i>Coffee</i>	P. Riseborough	O. Koloskova	A. Dzubinska
11:00-11:30	J. Valenta	G. Zwicknagl	S. Sowa	D.S. Inosov
11:30-12:00	Y. Hirose	J. Kolorenč	V. Buturlim	D. Hafner
12:00-12:30	T. Nakano	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Summary</i>
12:30-14:00	<i>Lunch Break</i>			
	<b>Invited</b> <b>Chair: S. Mašková +</b>	<b>U-compounds</b> <b>Chair: J. Custers</b>	<b>"Other materials"</b> <b>Chair – L. Havela</b>	
	<b>RE-compounds</b> <b>Chair: T. Klimczuk</b>			
14:00-14:30	<b>Mikhail Brik</b> (invited)	A. Kolomiyets	I. Halevy	
14:30-15:00		K. Carva - <span style="color: green;">changed</span>	X. Qiu	
15:00-15:30	<i>Coffee</i>	L. Sandratskii	A. Zelati	
15:30-16:00	M. Reiffers	<i>Coffee</i>	<i>Coffee</i>	
16:00-16:30	Arun K	P. Proschek	T. Klimczuk	
16:30-17:00	M. Mihalik	E. Svanidze		
17:00-17:30	<i>Welcome reception</i>	<b>Poster Session</b> <i>+ refreshment</i>		
17:30-19:00				
19:00-22:00			<i>Conference grill party</i>	

# PROGRAM

## Wednesday July 4

08:50-08:55	<i>Opening PCFES 2018</i>	<i>Silvie Mašková</i>	Charles University, CZ	
<b>TOKIMEKI 2018</b>	<b>Chairperson</b>	<b>Fuminori Honda</b>	<b>IMR, Tohoku U, JP</b>	
08:55-09:00	<i>Opening Tokimeki 2018</i>	<i>Fuminori Honda</i>	IMR, Tohoku University, JP	
09:00-09:30	Fermi surface instabilities and superconductivity in uranium compounds	Dai Aoki	IMR, Tohoku University, JP	<b>T1</b>
09:30-10:00	Tuning the uranium ferromagnetic superconductors with stress	Daniel Braithwaite	CEA Grenoble, FR	<b>T2</b>
10:00-10:30	Squeezing out hidden-order in URu <sub>2</sub> Si <sub>2</sub> under combined pressure and magnetic field	William Knafo	LNCMI CNRS Toulouse, FR	<b>T3</b>
10:30-11:00	<i>Coffee break</i>			
11:00-11:30	Antiferromagnetism and phase transitions in non-centrosymmetric UIrSi <sub>3</sub>	Jaroslav Valenta	Charles University, CZ	<b>T4</b>
11:30-12:00	Single Crystal Growth and Physical Properties of UPd <sub>2</sub> Cd <sub>20</sub>	Yusuke Hirose	Niigata University, JP	<b>T5</b>
12:00-12:30	Correlated s-Electron Systems in Regular Nanospace of Zeolite Crystals	Takehito Nakano	Ibaraki University, JP	<b>T6</b>
12:30-14:00	<i>Lunch break</i>			
<b>Invited talk</b>	<b>Chairperson</b>	<b>Silvie Mašková</b>	<b>Charles University, CZ</b>	
14:00-15:00	<i>f</i> and <i>d</i> elements in the periodic table: a unified description of electronic and optical properties	Mikhail Brik	Jan Dlugosz University, PL	<b>01_01 invited</b>
15:00-15:30	<i>Coffee break</i>			
<b>Session I. RE-compounds</b>	<b>Chairperson</b>	<b>Tomasz Klimczuk</b>	<b>TU Gdansk, PL</b>	
15:30-16:00	The study of YbPd <sub>2</sub> In indide and its physical properties at very low temperatures	Marian Reiffers	Presov University, SK	<b>01_02</b>
16:00-16:30	Magnetic, thermodynamic and transport properties of Gd <sub>3</sub> Ni <sub>2</sub> In <sub>4</sub>	Arun K	NIT Tiruchirappalli, IN	<b>01_03</b>
16:30-17:00	Structural and magnetic phase diagrams of RMn <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> system	Marian Mihalik	IEP SAS, SK	<b>01_04</b>
17:00-19:00	<i>Welcome Party</i>			

## Thursday July 5

Session II. Theory	Chairperson	Leonid Sandratskii	MPI Halle, DE	
09:00-09:30	Electronic Structure of $U_3Ni_3Sn_4$ , $U_6Fe$ and $UNi_4B$	Hisatomo Harima	Kobe University, JP	<b>02_01</b>
09:30-10:00	Trivalent uranium states in $UPd_2Al_3$ , $UGa_2$ and $UGe_2$	Ryszard Radwanski	UP Cracow, PL	<b>02_02</b>
10:00-10:30	<i>Coffee break</i>			
10:30-11:00	Nozieres Exhaustion, Magnetic Ordering and Hidden Order in High Spin $SU(2)$ Kondo Lattices	Peter Riseborough	Temple University, USA	<b>02_03</b>
11:00-11:30	Superconducting order parameters in Heavy Fermion Systems: Power laws, symmetry, and topology	Gertrud Zwicknagl	TU Braunschweig, DE	<b>02_04</b>
11:30-12:00	Theory of resonant x-ray emission spectra at the L and M edges in compounds with localized $f$ electrons	Jindřich Kolorenč	IoP CAS, CZ	<b>02_05</b>
12:00-14:00	<i>Lunch break</i>			
Session III. U-compounds	Chairperson	Jeroen Custers	Charles University, CZ	
14:00-14:30	Extended stability range of the Non-Fermi liquid phase in $UCoAl$	Alexandre Kolomiets	Lviv Polytechnic Nat. U, UA	<b>03_01</b>
14:30-15:00	Laser induced ultrafast demagnetization and spin current generation	Karel Carva	Charles University, CZ	<b>changed</b>
15:00-15:30	Chiral incommensurate magnet $UPtGe$ in strong magnetic field: experiment and theory	Leonid Sandratskii	MPI Halle, DE	<b>03_03</b>
15:30-16:00	<i>Coffee break</i>			
16:00-16:30	$U_4Ru_7Ge_6$ – electrical resistivity and magnetic studies	Petr Proschek	Charles University, CZ	<b>03_04</b>
16:30-17:00	Novel Heavy Fermion Compound	Eteri Svanidze	MPI-CPfS Dresden, DE	<b>03_05</b>
<b>17:00-19:00</b>	<b>Poster session</b>			

## List of Posters

Influence of Co-Fe substitution on the magnetism of DyFe <sub>5</sub> Al <sub>7</sub> : single-crystal study	Alexander Andreev	IoP CAS, CZ	<b>P-01</b>
Metamagnetism in ErCo <sub>4</sub> Al: single-crystal study	Alexander Andreev	IoP CAS, CZ	<b>P-02</b>
Samarium and neodymium easy-plane ferrobates. Magnetopiezoelectric effects	Tetiana Gaydamak	ILTPE NASU, UA	<b>P-03</b>
Superconductivity in the intermetallic Ce-based compound CeIr <sub>3</sub>	Karolina Górnicka	TU Gdansk, PL	<b>P-04</b>
Electronic structure and lattice dynamics of thorium from first-principles calculations	Lukáš Kývala	VŠB-TU of Ostrava, CZ	<b>P-05</b>
Upper critical and irreversibility fields in iron-based Ni- and Co- doped polycrystalline superconductors	Martin Nikolo	Saint Louis University, USA	<b>P-06</b>
Excess conductivity and pseudogap in Y <sub>1-x</sub> Pr <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-?</sub> single crystals under pressure	Lyudmila Omelchenko	ILTPE NASU, UA	<b>P-07</b>
Structure and superconductivity properties in U <sub>1-x</sub> Ru <sub>x</sub> splat-cooled alloys ( $x = 0-18.5\%$ )	Sylwia Sowa	UP Cracow, PL	<b>P-08</b>
Onset of Magnetism in U <sub>2</sub> (Ni <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> Sn	Zbigniew Tarnawski	AGH U. of Science and Technology, PL	<b>P-09</b>
Spin-polarized rhenium doped wurtzite ZnO: GGA+U study	Oksana Volnianska	IoP PAS, PL	<b>P-10</b>
Nuclear Forensics: Fission Track Analysis utilizing Light and Force Microscopy	Ariel Yosef	Clean Laboratory, Rotem Industries, IL	<b>P-11</b>
Advances in fission track detection and analysis or nuclear forensics and safeguards investigations	Itzhak Halevy	NRCN, IL	<b>P-12</b>

## Friday July 6

Session IV. Hydrides+Oxides	Chairperson	Kim Nhu-Tarnawska	UP Cracow, PL	
09:00-09:30	Exotic magneto-elastic properties in uranium dioxide	Krzysztof Gofryk	Idaho National Laboratory, USA	<b>04_01</b> invited
09:30-10:00	High-temperature quaternary phases Dy <sub>2</sub> Ni <sub>2</sub> X <sub>0.2</sub> In <sub>0.8</sub> (X = Al, Ga) and their hydrides	Khrystyna Miliyanchuk	IFNU of Lviv, UA	<b>04_02</b>
10:00-10:30	<i>Coffee break</i>			
10:30-11:00	Structure, transport and magnetic properties of uranium-vanadium alloys and hydrides	Oleksandra Koloskova	Charles University, CZ	<b>04_03</b>
11:00-11:30	Structure and low temperature, physical properties of U-15at.% T alloys (T-selected 4d-5d metals)	Sylwia Sowa	UP Cracow, PL	<b>04_04</b>
11:30-12:00	Strong electron correlations in the UTi <sub>2</sub> stabilized by hydrogen	Volodymyr Buturlim	Charles University, CZ	<b>04_05</b>
12:00-14:00	<i>Lunch break</i>			
Session V. Other materials	Chairperson	Ladislav Havela	Charles University, CZ	
14:00-14:30	Nuclear forensics: New frontiers with TOF-SIMS techniques.	Itzhak Halevy	NRCN, IL	<b>05_01</b>
14:30-15:00	Orbital Selective Mott Physics in Iron-based Superconductor KFe <sub>2</sub> As <sub>2</sub>	Xianggang Qiu	IOP CAS, CN	<b>05_02</b>
15:00-15:30	Influence of Terbium nanoparticles addition on superconducting properties of BPSCCO	Amir Zelati	University of Birjand, IR	<b>05_03</b>
15:30-16:00	<i>Coffee break</i>			
16:00-16:30	Charge density waves and magnetism in RNiC <sub>2</sub> carbide family	Tomasz Klimczuk	TU Gdansk, PL	<b>05_04</b>
<b>19:00-22:00</b>	<i>Conference grill party</i>			

## Saturday July 7

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<b>Session VI. Ce-compounds</b>	<b>Chairperson</b>	<b>Krzysztof Gofryk</b>	<b>Idaho National Laboratory, USA</b>	
09:00-09:30	Non-Fermi Liquid Behavior at Antiferromagnetic Quantum Critical Point in Heavy Fermion System Ce(Cu,Co) <sub>2</sub> Ge <sub>2</sub>	Zakir Hossain	IIT Kanpur, IN	<b>06_01</b>
09:30-10:00	NQR/NMR study on Zn-doped CeCoIn <sub>5</sub>	Hironori Sakai	JAEA, JP	<b>06_02</b>
10:00-10:30	<i>Coffee break</i>			
10:30-11:00	Magnetic study of substituted Ce <sub>1-x</sub> Gd <sub>x</sub> Ni <sub>5</sub> system	Andrea Dzubinska	UPJS Kosice, SK	<b>06_03</b>
11:00-11:30	The nature of field-induced magnetic phases in Ce <sub>3</sub> Pd <sub>20</sub> Si <sub>6</sub>	Dmytro Inosov	TU Dresden, DE	<b>06_04</b>
11:30-12:00	Ce- and Yb- based Kondo-lattice ferromagnets and their peculiar order along the magnetically hard axis	Daniel Hafner	MPI-CPfS Dresden, DE	<b>06_05</b>
12:00-12:15	<i>Conference summary</i>			

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