

**Research topics in the discipline of the physical science
in the academic year 2026/2027**

Lp.	PhD Supervisor	ORCID	Contact	Research topics	Language of the doctoral dissertation
1.	prof. dr hab. Francesco Giacosa	0000-0002-7290-9366	fgiacosa@ujk.edu.pl	1. Unconventional mesons: glueballs and tetraquarks 2. Restoration of chiral symmetry at nonzero temperature and density in effective models of QCD 3. Modeling the measurement process in quantum mechanics 4. Non-exponential decay in Quantum Mechanics and in Quantum Field Theory	English
2.	dr hab. prof. UJK Paweł Kankiewicz	0000-0001-7645-2618	pawel.kankiewicz@ujk.edu.pl	Dynamics of small bodies of the Solar System	Polish*/English
3.	prof. dr hab. Tadeusz Kosztolowicz	0000-0001-5710-2970	tadeusz.kosztolowicz@ujk.edu.pl 608 516 284	Normal and anomalous diffusion, fractional calculus	
4.	prof. dr hab. Marek Pajek	0000-0002-3888-5209	marek.pajek@ujk.edu.pl	1. Interactions of highly charged ions with surfaces 2. Recombination processes of ions with electrons in the plasma 3. Investigations of relaxation of Rydberg hollow atoms by X-ray spectroscopy	

Lp.	PhD Supervisor	ORCID	Contact	Research topics	Language of the doctoral dissertation
5.	prof. dr hab. Maciej Rybczyński	0000-0002-3638-3766	maciej.rybczynski@ujk.edu.pl +48 41 349 6468	1. Investigation of multiparticle production processes in high-energy nuclear collisions 2. Study of fluctuations and correlations in particle production processes 3. Multiplicity fluctuations in collisions of relativistic ions	Polish*/English
6.	dr hab. prof. UJK Grzegorz Stefanek	0000-0001-6656-9177	grzegorz.stefanek@ujk.edu.pl 41-3496466	The physics of relativistic heavy-ion collisions	
7.	prof. dr hab. Zbigniew Włodarczyk	0000-0002-5602-9692	zbigniew.wlodarczyk@ujk.edu.pl	Fluctuations and correlations in multiparticle production processes	