

Reserach topics in the discipline of physical science

In the academic year 2025/2026

Sg.	PhD Supervisor	ORCID	Contact e-mail	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 Kosztołowicz	0000-0001-5710-2970	tadeusz.kosztołowicz@ujk.edu.pl	Normal and anomalous diffusion, fractional calculus	Polish
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	Polish
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	Polish/English

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				3) Multiplicity fluctuations in collisions of relativistic ions	
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	Polish
7.	prof. dr hab. Zbigniew Włodarczyk	0000-0002-5602-9692	zbigniew.wlodarczyk@ujk.edu.pl	Fluctuations and correlations in multiparticle production processes	Polish