

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

No.	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	– Unconventional mesons: glueballs and tetraquarks – Restoration of chiral symmetry at nonzero temperature and density in effective models of QCD – Modeling the measurement process in quantum mechanics – 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	Polish, English
4.	prof. dr hab. Marek Pajek	0000-0002-3888-5209	marek.pajek@ujk.edu.pl	– Interactions of highly charged ions with surfaces – Recombination processes of ions with electrons in the plasma – Investigations of relaxation of Rydberg hollow atoms by X-ray spectroscopy	Polish, English
5.	prof. dr hab. Maciej Rybczyński	0000-0002-3638-3766	maciej.rybczynski@ujk.edu.pl +48 41 349 6468	– Investigation of multiparticle production processes in high-energy nuclear collisions – Study of fluctuations and correlations in particle production processes – Multiplicity fluctuations in collisions of relativistic ions	Polish, English

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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, English
7.	prof. dr hab. Zbigniew Włodarczyk	0000- 0002- 5602- 9692	zbigniew.wlodarczyk@ujk.edu.pl	– Fluctuations and correlations in multiparticle production processes	Polish, English