

FACULTY OF MATHEMATICS AND PHYSICS Charles University

Report on doctoral thesis defence jointly organized by Charles University and Université de Strasbourg

Academic year: 2023/2024

Student's name and surname:	RNDr. Jakub Podgorný	
Student's ID:	59895729	
Type of the study programme:	doctoral	
Study programme:	Theoretical Physics, Astronomy and Astrophysics	
Study ID:	664254	
Title of the thesis: Thesis department:	Polarisation properties of X-ray emission from accreting supermassive black holes Astronomical Institute of Charles University (101. • 32-AUUK)	
Language of the thesis:	English	
Language of defence:	English	
Supervisor:	RNDr. Michal Dovčiak, Ph.D.	
Reviewer(s):	prof. Christine Done	
	Dr. Delphine Porquet	
Date of defence:	12.12.2023 Venue of defence: Praha	
Attempt:	regular	
Course of defence:	The PhD Thesis presented by Jakub Podgorný was found by the Jury to be a complete and thorough exploration of a new and complex field. The Jury appreciated the combined presentation of theoretical research and observational analysis using the X-ray polarimetric data from the recent IXPE satellite. The presented work was evaluated as extraordinarily good given how many new results were achieved in a relatively short time, leading to an outstanding number of publications in refereed journals, six of which as first author. The student gave an excellent presentation of his results, selecting the most important for discussion and well explaining their physical background. He properly answered to questions raised by reviewers and other members of the Jury demonstrating a deep knowledge of all aspects of the Thesis work and its wider context. For all these reasons, the Jury unanimously evaluated the PhD work and its presentation as exceptional.	

Result of defence:	pass (P)	
Chair of the board:	RNDr. Jiří Svoboda, Ph.D.	
Committee members:	Dr. Caroline Bot	
	prof. Christine Done	
	RNDr. Michal Dovčiak, Ph.D.	
	Frédéric Marin	
	Giorgio Matt	
	Dr. Delphine Porquet	