PERSONAL INFORMATION

Name: Jan Surname: Kotek

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Phone: +420 722 766 721 Email: jankotek@email.cz

Year of birth: 1992 Nationality: Czech

RESEARCH INTERESTS

Physics of magnetic reconnection

Dynamics of the Solar atmosphere

Application of the Finite Element Method in space and astrophysical plasma physics

EDUCATION

2017- PhD in Theoretical physics, Astronomy and Astrophysics

Charles University, Prague supervisor: Miroslav Bárta

topic: Research in space-plasma processes be means of advanced numerical

simulations

2014-2017 M.Sc. in Astronomy and Astrophysics at Charles University

topic: Nonlinear simulations using Finite Element Method

2011-2014 B.Sc. in General Physics at Charles University

topic: Numerical solution of physical problems leading to the system of

PDEs by the Finite Element Method – an introduction

ATTENDED CONFERENCES

2018	12 th International School/Symposium for Space Simulations, Los Angeles:
	3D MHD Discontinuous Galerkin FEM code
2018	From space, solar and laboratory plasmas to plasma astrophysics - Theory
	and Simulation of Solar System Plasmas, Göttingen: Application of
	Discontinuous Galerkin FEM in astrophysical MHD - discussion
2018	Week of Doctoral Students: Solar flares and their modelling

2017	IAGA/SCOSTEP Solar variability and coupling effects in the	
	Earth's atmosphere	
2017	European Week of Astronomy and Space Sciences – organising staff	
2015	12 th International School/Symposium for Space Simulations – org. staff	
2012	Expo Sciences, Brussels	
2011	Open Science, Brno – best physics lecture	
RESEARCH PROJECTS		
2018-2021	Spectroscopy of Dynamic Phenomena in Solar Atmosphere;	
	Charles University student grant GAUK1130218	
2010-2012	Open Science II programme for young students: Spectral Analysis of Solar	
	Flares - including data processing pipeline in IDL and data alignment	
	routines. Supervisor: Pavel Kotrč	

LANGUAGE SKILLS

Czech: first language

English: fluent German: fair Spanish: basics

OTHER ABILITIES

Programming skills: C/C++, python, IDL, parallelization

Administrator of Linux computer lab

HPC computing
Driving license B

MISCELLANEOUS

2018-	Solar patrol at Ondrejov observatory
2007	Winner of ESO Catch a Star! competition: Research and Observation of
	the Solar Eclipse