Institute of physics
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Vinko Šurija

General information

Date of birth 17.09.1988. Nationality Croatian

Education

2013. – present **PhD**, *Condensed matter physics*, Faculty of science, University of Zagreb.

2007. – 2012. **M.Sc in physics**, Faculty of science, University of Zagreb, *4.725/5.0* GPA.

Master thesis

Title *Magnetic dynamics of quasi-2D system* $Fe_8Te_{12}O_{32}Cl_6$

Supervisor: Dr.Sc. Ivica Živković

Employment

03/2013–present **Collaborator on project (PhD student)**, *Institute of physics*, Zagreb, Croatia.

- main experimental method for PhD thesis: neutron scattering
- design and development of in-house made SQUID magnetometer
- automation and software development of AC susceptibility measurements

Work experience

03/2015–present **Collaborator on project**, *Institute of physics*, Zagreb, Croatia.
EUROfusion WPEDU PhD

03/2013–03/2016 **Collaborator on project**, *Institute of physics*, Zagreb, Croatia.
"Investigation of a tetramer system $SeCuO_3$ and similar quantum magnets"

11/2011–10/2014 **Collaborator on project**, *Institute of physics*, Zagreb, Croatia.
Croatian science foundation project: "Complex magnetic systems"

07/2011–08/2011 **Summer intern**, *EPFL*, Lausanne, Switzerland.
Equipment and software development, under supervision of prof. Henrik Rønnow

Conferences and schools

2017 International Conference on Neutron Scattering 2017; Daejeon, Korea; oral presentation

2015 European Fusion Programme Workshop; Zakopane, Poland

2015 European Fusion Programme Workshop; Bled, Slovenia

2014 European Fusion Programme Workshop; Split, Croatia

2014	8th Croatian physical association meeting; poster presentation
2013	JCNS Neutron Laboratory Course 2013; Jülich, Germany
2012	43rd IFF Spring School, Scattering Methods for Condensed Matter Research: Towards Novel Applications at Future Sources; Jülich, Germany
2011	7th Croatian physical association meeting; poster presentation

Scholarship

2014–present	EUROATOM Fusion PhD fellow
2011	National foundation for student standard support (gifted students category)
2008–2010	Republic of Croatia scholarship (gifted students category)

Language

Croatian	**Native**	
English	**Fluent**	*Fluent in conversation and writing*
German	**Intermediate**	*Advanced in conversation and basic in writing*
Italian	**Intermediate**	*Intermediate in conversation and writing*

Technical skills

Programing languages	VB.Net, C#, C/C++, Java, LaTeX, Python
Tools	MATLAB, Wolfram Mathematica, LabVIEW
Scientific	Neutron scattering, FullProf analisys
Other	Instrument communication and automation, measurement techniques development, microcontroller IoT, PCB design

Interests

I am interested in research and development of scientific mesurement techniques, including both the hardware and software.

Publications

[1] I. Levatić, P. Popčević, V. Šurija, A. Kruchkov, H. Berger, A. Magrez, J. S. White, H. M. Rønnow, and I. Živković, "Dramatic pressure-driven enhancement of bulk skyrmion stability," *Scientific Reports*, vol. 6, p. 21347, 2016.

[2] I. Levatić, V. Šurija, H. Berger, and I. Živković, "Dissipation processes in the insulating skyrmion compound Cu2OSeO3," *Physical Review B*, vol. 90, no. 22, p. 224412, 2014.

[3] M. Prester, I. Živković, D. Drobac, V. Šurija, D. Pajić, and H. Berger, "Slow magnetic dynamics and hysteresis loops of the bulk ferromagnet Co7(TeO3)4Br6," *Physical Review B*, vol. 84, no. 6, 2011.