

# Curriculum Vitae



<b>Personal details</b>	<b>RNDr. Martina Boháčová, Ph.D.</b>
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<b>Education</b>	<b>2007</b> — Ph.D. in Subnuclear physics Faculty of Mathematics and Physics, Charles University in Prague Thesis topic: <b>Pierre Auger Fluorescence detector – Study of the Air fluorescence</b> Director: RNDr. Jiří Grygar, CSc. Advisor: Prof. Jan Řídký, DrSc.
	<b>1999</b> — M.Sc. in Nuclear and Subnuclear physics Faculty of Mathematics and Physics, Charles University in Prague Diploma thesis theme: <b>Detector CELESTE: Data Analysis</b> Thesis Director: Prof. Ladislav Rob, DrSc.

<b>Work experience</b>	<b>2010 – present</b> Institute of physics, Prague, Czech Republic – senior researcher AUGER (relative calibration, laboratory for PMT testing, PAO upgrade – electronics testing), AMY (hardware, MC simulations, data taking), CTA (PMT testing)
	<b>2017 – present</b> Deputy head of the Department of astroparticle physics
	<b>2011 – 2014</b> LNF, Frascati, Italy - several measurement periods (AMY experiment – Microwave emission of air showers)
	<b>2008 – 2010</b> KICP and University of Chicago, USA – postdoctoral researcher AIRFLY (setup of final measurement, data taking and analysis, complete simulation of the measurement), AUGER (relative calibration, data taking), MIDAS (hardware preparation)
	<b>2007 – 2008</b> Institute of Physics, CAS, Prague, Postdoctoral Researcher experiments AIRFLY (data analysis and MC simulations) and AUGER (relative calibration of FD, data taking shifts)
	<b>2005 – 2006</b> ANL, Argonne, USA - several data-taking periods (AIRFLY experiment)
	<b>2003 – 2005</b> LNF, Frascati, Italy - several data-taking periods (AIRFLY experiment)
	<b>2001 – 2002</b> Forschungszentrum Karlsruhe, Institut für Kernphysik, Germany, Marie-Curie fellowship
	<b>1999 – 2006</b> Institute of Physics, CAS, Prague, graduate student
	<b>1998 – 1999</b> CNBG, Bordeaux, France, experiment CELESTE - fellowship

<b>Professional collaborations</b>	<b>2015 – present</b> Member of International Astronomical Union
	<b>2011 – present</b> Cherenkov Telescope Array
	<b>1999 – present</b> Pierre Auger Collaboration

<b>Publications</b>	Co-author of over 150 publications, which were cited more than 9000 times, H-index 47
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<b>Research activities 2011 - present</b>	<ul style="list-style-type: none"> <li>- Participation at the Pierre Auger Observatory (PAO), data taking, fluorescence detector relative calibrations, detector performance</li> <li>- Upgrade of PAO: testing of electronics boards, preparation of the environmental stress screening procedure and test setup</li> <li>- Absolute air fluorescence yield, preparation of the experimental setup, testing of the individual components, conducting a total simulation of the detector performance and study the systematic effects</li> <li>- Air microwave yield, participation on the MIDAS experiment hardware preparation and installation, AMY experiment - data taking and analysis, simulations of the detector performance, hardware preparation</li> </ul>
<b>Grants and funding</b>	<b>2020 – 2022</b> PI of OP RDE (OP VVV) Research Infrastructure: - <i>Future of the Czech participation at the Pierre Auger Observatory II</i>
	<b>2017 – 2020</b> PI of OP RDE (OP VVV) Research Infrastructure: - <i>Future of the Czech participation at the Pierre Auger Observatory</i>
	<b>2011 – 2014</b> PI of EU TARI FP7 (Hadron Physics 3) Project No. 29 (2011), No. 2 and No. 20 (2012-2014) - Experiment AMY (LNF INFN Frascati)
	Team member in series of MEYS grants in the programs INGO and EUPRO to support astroparticle physics projects - Pierre Auger Observatory and Cherenkov Telescope Array.
<b>Committees and functions (in FZU)</b>	<b>2017 – present</b> Deputy head of the Department of astroparticle physics
	<b>2016 – present</b> Head of the Laboratory for astroparticle physics
	<b>2010 – 2021</b> FZU election committee member ( <b>2018 – 2021</b> chair)
	<b>2018 – present</b> member of the HR Award steering committee
<b>Committees and functions (international)</b>	<b>2022 – present</b> EPS - High Energy Particle Physics Board member
	<b>2020 – present</b> Deputy task leader of the PAO Fluorescence detector
	<b>2018 – 2021</b> PAO Conference committee member
	<b>2018 – 2019</b> PAO Radio Detector Assessment committee member
	<b>2012 – 2014</b> country representative EU ASPERA project “AUGER NEXT”
<b>Review panels</b>	<b>2021 – present</b> GAČR review panel 203 (particle and nuclear physics, astronomy and astrophysics)
	external evaluator: GA UK, VEGA, ERC
<b>Teaching and supervision</b>	postdoc: Thomas Tavernier (since 2022) M.Sc.: Margita Majerčáková (2022) B.Sc.: Margita Majerčáková (2020) B.Sc.: Marek Benc (2014) M.Sc.: Lenka Tománková – Gaudeamus, “Česká hlava” Award (2012)
<b>International conference organization</b>	<b>2020</b> ICHEP (International Conference on High Energy Physics), Prague - member of the organizing committee
	<b>2012</b> Pierre Auger Collaboration analysis meeting, Prague - member of the organizing committee
	<b>2006</b> 4th air fluorescence workshop, Prague - organizing committee member
<b>Science popularization</b>	<b>2012 - present</b> Open science program – regular participation <b>2014 - present</b> Week of Science and Technology (public lectures) <b>Media:</b> TV Noe - “Hlubinami vesmíru”, ČRo – Meteor, journal Vesmír