

# Curriculum Vitae

## Ing. Marcela Mikeščíková, Ph.D.

### Personal data

Permanent address: Pomořanská 471/3, Prague 8, ZIP: 18200, Czech Republic  
Phone: +420728731567, Fax: +420266052579, E-mail: marcela.mikestikova@cern.ch  
ORCID: 0000-0003-1277-2596  
Researcher ID: H-1996-2014  
SCOPUS: 16745277000  
Inspire HEP: <https://inspirehep.net/authors/1066716>.  
Date of birth: 3.9. 1969  
Nationality: Czech

### Education

#### **1993-2000**

Faculty of Nuclear Sciences and Physical Engineering (FNSPE), Czech Technical University (CTU) in Prague  
Ph.D. in Nuclear Physics  
Thesis: "Development of position sensitive detectors for the ATLAS Inner Detector of the ATLAS experiment"

#### **1988-1993**

FNSPE CTU in Prague  
Master's degree, Dipl. Eng. In Nuclear Physics  
Diploma thesis: Quality research of optical fibers after irradiation

### Academic Qualification and Work Practice

#### **2019 – present**

Head of Laboratory for the Testing of Silicon Particle Detectors, Institute of Physics of the Czech Academy of Sciences (FZU), Czech Republic

#### **2016 – present**

Senior Researcher (permanent), Division of Elementary Particle Physics, FZU, Czech Republic

#### **2008-2015**

Associated Scientist, Division of Elementary Particle Physics, FZU, Czech Republic

#### **2003-2008**

Postdoctoral Researcher, Division of Elementary Particle Physics, FZU, Czech Republic

#### **1993-2003**

Research assistant and PhD student, Division of Elementary Particle Physics FZU, Czech Republic

### Commissions of Trust and serving scientific community

#### **2016 – present**

Team Leader - Representative of FZU in ATLAS Inner Tracker (ITk) at CERN

#### **2018 – present**

Representative of FZU in the Radiation hard semiconductor devices for very high luminosity colliders (RD50) CERN collaboration

#### **2018 – present**

Representative of FZU in the ATLAS Semiconductor Tracker (SCT) collaboration at CERN

#### **2019 – present**

Member of state bachelor commission at FNSPE, CTU, Prague.

#### **2021-present**

Member of Speakers Committee for ATLAS ITk at CERN  
Journal referee at Nuclear Instruments and Methods in Physics Research A, Elsevier  
Journal referee at Surfaces and Interfaces, Elsevier

### **Publications:**

***h*-index of 186 according to Inspire HEP database, as of 23 March 2023**

I (co)authored a total of 1095 journal articles and conference proceedings, most of them are papers by ATLAS, CMS and WA97 Collaborations. Of these, 566 have been articles submitted or published since 2016. My work has so far gained over 166,405 citations.

### **SUPERVISION OF GRADUATE STUDENTS**

MSc: Supervisor of Vera Latonova, Charles University, Czech Republic  
MSc: Supervisor of Iveta Zatocilova, Charles University, Czech Republic  
PhD: Supervisor of Vera Latonova, Charles University, Czech Republic

### **RESEARCH GRANTS**

Since 2016, I have been involved as a standard investigator in 3 major research grants on international cooperation of Czech research institutions with experiments and projects at CERN. These grants together acquired more than 20 million Euro.

<b>Role</b>	<b>Amount</b>	<b>Timespan</b>	<b>Title</b>	<b>Grant name / Funder</b>	<b>Call scope</b>
I	10.7 mil EUR	Jan 2020 - Dec 2022	Research infrastructure for experiments at CERN (CERN-CZ), LM2018104	MEYS, Large Research Infrastructure Program	Czech
I	11.7 mil EUR	Jan 2016 - Dec 2019	Research infrastructure for experiments at CERN (CERN-CZ), LM2015058	MEYS, Large Research Infrastructure Program	Czech
I	1.5 mil EUR	Mar 2017 - Dec 2022	Getting new knowledge of the microworld using the CERN infrastructure, LTT17018	MEYS, program Inter-Excellence	Czech

### **TALKS AT INTERNATIONAL CONFERENCES**

I have given over 20 talks (3x International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors, International Workshop on Radiation Imaging Detectors, Optical Fiber Communication Conference, Radiation hard semiconductor devices for very high luminosity colliders meeting) of which 10 have been at international conferences and workshops. Since Jan 2016 highlights include:

June 2022	"ATLAS ITk strip sensor quality control procedures and testing site qualification", 23rd International Workshop on Radiation Imaging Detectors, Riva del Garda, Italy
Dec 2019	"Electrical characterization of surface properties of the ATLAS17LS sensors after neutron, proton and gamma irradiation", International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors, Hiroshima, Japan

- June 2019 "Preliminary results of bulk damage study in  $^{60}\text{Co}$  irradiated n-in-p silicon strip sensors", Radiation hard semiconductor devices for very high luminosity colliders RD50 meeting Lancaster, UK
- Apr 2019 "Results from prototyping and Market Survey of ATLAS ITk strip sensors: Surface measurements overview", Final Design Report, CERN