

Curriculum Vitae

RNDr. Jana Bielčíková, Ph.D. (born Slívová)

Research Interests:

nuclear matter under extreme conditions, strange particle, heavy-flavour particle and jet production in proton-proton and nucleus-nucleus collisions at high energies at BNL RHIC (STAR experiment) and LHC CERN (ALICE experiment)

Education:

Charles University, Prague, Czech Republic

Faculty of Mathematics and Physics

Ph.D., Nuclear and Particle Physics, September 2003

Doctoral Thesis: “Azimuthal correlations of high- p_T pions in 158 AGeV/c Pb-Au collisions measured by the CERES/NA45 experiment”

Advisor: Prof. Dr. Johann Peter Wurm

(Max-Planck-Institute for Nuclear Physics, Heidelberg, Germany)

Charles University, Prague, Czech Republic, Faculty of Mathematics and Physics

Mgr. (MSc.), Nuclear and Particle Physics, May, 1997

Master's Thesis: “Properties of odd Ru isotopes studied by γ -ray spectroscopy”

Advisor: Dr. Milan Honusek (Nuclear Physics Institute of the CAS, Rez, Czech Republic)

Academic Experience:

- *Research Scientist (part time)* 2018 –
Faculty of Nuclear Sciences and Physical Engineering,
CTU Prague, Czech Republic
- *Department chair* 2017 –
Department of Nuclear Spectroscopy,
Nuclear Physics Institute of the CAS, Czech Republic
- *Group leader* 2013 – 2017
Ultrarelativistic Heavy-Ion Group, Department of Nuclear Spectroscopy,
Nuclear Physics Institute of the CAS, Czech Republic
- *Senior Scientist* 2012 –
Nuclear Physics Institute of the CAS, Czech Republic
- *Scientist* 2007 – 2012
Nuclear Physics Institute of the CAS, Czech Republic
- *Postdoctoral Research Associate* 2004 – 2007
Yale University, USA, group of prof. Dr. John Harris
- *Postdoctoral Associate* 2003 – 2004
University of Heidelberg, Germany, group of prof. Dr. Johanna Stachel
- *Research Assistant* 2000 – 2002
University of Heidelberg, Germany, group of prof. Dr. Johanna Stachel

- *Research Assistant* 1997 – 2000
Max-Planck-Institute for Nuclear Physics, Heidelberg, Germany
group of Prof. Dr. Johann Peter Wurm
- *Student research assistant* 1993 – 1997
Nuclear Physics Institute of the CAS, Czech Republic

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Honors and Awards:

- Certificate of Merit for work with secondary school students,
The Union of Czech Mathematicians and Physicists, 2018
- Otto Wichterle Award of the Czech Academy of Sciences, 2008

Scientific journal refereeing:

- referee of Physics Letters B
- referee of European Physics Journal C

Committees of grant agencies/institutions:

- European Commission, H2020, evaluation panel 2018
- Physics Advisory Committee, GSI, Darmstadt, Germany 2017 –
- Grant Agency of the Czech Republic, Chair of Panel 203 2019 – 2021
- Grant Agency of the Czech Republic, Deputy chair of Panel 203 2017 – 2019
- Deputy chair of the Nuclear Physics Institute of the CAS Board,
Czech Republic 2017 –
- Member of the INGO/Inter-Excellence grant advisory panel,
Ministry of Education, Youth and Sports, Czech Republic 2014 –
- Comparative Research Review of Heavy-Ion Physics, Department of Energy,
Washington, USA 2013

Research Grants:

- Large Infrastructure project LM2018109 “Brookhaven National Laboratory - participation
of the Czech Republic”
Ministry of Education, Youth and Sports, Czech Republic 2019 – 2022
- Inter-Excellence/Inter-Transfer LTT18002: “Study of new properties of nuclear matter at the
STAR experiment”
Ministry of Education, Youth and Sports, Czech Republic 2018 – 2022
- OPVVV CZ.02.1.01/0.0/0.0/16013/0001569, Brookhaven National Laboratory -
participation of the Czech Republic”
Ministry of Education, Youth and Sports, Czech Republic 2017 – 2020
- Large Infrastructure project LM2015054 “Brookhaven National Laboratory - participation
of the Czech Republic”
Ministry of Education, Youth and Sports, Czech Republic 2016 – 2019
- INGO research grant LG15001, “Participation of the Czech Republic in experiments
at the Brookhaven National Laboratory, USA”
Ministry of Education, Youth and Sports, Czech Republic 2015 – 2017
- Barrande-Mobility research grant, France-Czech Republic, 7AMB14FR, “Hadronization
mechanisms in heavy-ion collisions at the LHC via the flavour composition of jets”
Ministry of Education, Youth and Sports, Czech Republic 2014 – 2015

- GACR research grant 13-20841S, “Study of nuclear matter in ultra-relativistic heavy-ion collisions at RHIC”
Grant Agency of the Czech Republic 2013 – 2016
- INGO research grant LA09013, “Participation of the Czech Republic in the STAR experiment, BNL, USA”
Ministry of Education, Youth and Sports, Czech Republic 2009 – 2012

Teaching Experience

Faculty of Nuclear and Physical Engineering, Czech Technical University, Prague

- Introduction to Electroweak Interactions, lecture 2012 –
- Introduction to Quantum Chromodynamics, lecture 2008 –
- Experimental tests of Quark Gluon Plasma, seminar 2008 –
- Seminar on Quark Gluon Plasma, seminar 2008 –
- Advanced Physics Lab Course 2007 – 2008

Department of Physics, Yale University, USA

- instructor in Physics 166b lab course, 1 semester 2005

Faculty of Astronomy and Physics, University of Heidelberg, Germany

2000 – 2003

- assistant in Advanced Practical Physics Course II, 2 semesters
- assistant in Practical Physics Course I, 1 semester
- teaching assistant in physics exercises supplemented to Physics B lectures, 1 semester
- teaching assistant in physics exercises supplemented to Physics A lectures, 1 semester

Advisor of Ph.D./Msc./Bc. Theses:

Ph.D.: J. Rusňák (advisor, 2010 – 2017), RHIC/AGS Best Thesis Award 2018

V. Kučera (advisor, 2012 – 2016) ALICE Thesis Award 2017

M. Vajzer (co-advisor, 2015);

M. Šimko (co-advisor, 2013 –), J. Vaněk (co-advisor, 2017 –),

R. Líčeník (advisor, 2019 –),

MSc.: V. Prozorova (2020), M. Kocmánek (2017), V. Pacík (2016), Z. Barnovská (2012),

V. Kučera (2012), M. Sloboda (2011), J. Rusňák (2010), J. Král (2008),

V. Zycháček (2008);

M. Robotková (2019 –), G. Ponimatkin (2019 –), J. Mrázková (2020 –)

Bc.: J. Bobek (2020), J. Mrázková (2020), M. Robotková (2019), G. Ponimatkin (2019),

V. Agafonova (2017), M. Kocmánek (2015), K. Moudrá (2013)

Membership in Scientific Collaborations, Committees, Organizations:

- **STAR Collaboration, RHIC, BNL** 2004 –
member
2021 – : chair of STAR Council
2015 – 2018: chair of the STAR Talks Committee
2012 – now: NPI STAR Council representative
2007 – 2009: convener of the High-p T /Jet-like Physics Working Group
2007 – 2008: member of the STAR Talks Committee
- **ALICE Collaboration, LHC, CERN** 2003 – 2004
member 2007 –
2017 – 2019: member of the ALICE Editorial Board

2013 – 2015: convener of the Physics Working Group of Jets

- **CERES/NA45 Collaboration, SPS, CERN** 1997 – 2004
member
- RHIC/AGS Users Executive Committee 2008 – 2010
- Union of Czech Mathematicians and Physicists 2007 –
Czech Physics Society 2007 –
- American Physical Society 2004 – 2007
- Center for physics of ultra-relativistic heavy-ion collisions (CFRJS),
Prague, Czech Republic 2007 – 2011

Conference and Workshop Organization:

- 40th International Conference on High Energy Physics (ICHEP2020), 2020
Czech Republic, co-chair of conference program committee,
member of local organization committee
- 30th Indian Summer School, “Phenomenology of Hot and Dense Matter for Future 2018
Accelerators”, Czech Republic, international summer school, co-organizer
- Hot Quarks 2018, Netherlands, international workshop, co-organizer 2018
- Hot Quarks 2016, USA, international workshop, co-organizer 2016
- Hot Quarks 2014, Spain, international workshop, co-organizer 2014
- High- p_T Physics at RHIC and LHC, international workshop,
member of IAC 2014, 2015
- 25th Indian Summer School, “Understanding Hot and Dense QCD Matter”, 2013
Czech Republic, international summer school, co-organizer
- “Jets in proton-proton and nucleus-nucleus collisions”, Czech Republic 2010
international workshop, co-organizer
- “Three Kings Conference/Trikralova conference”, 2008 –
conference of Czech and Slovak physicists, co-organizer
- STAR Collaboration Meeting, Prague, Czech Republic 2011, 2021
- STAR Collaboration Meeting, Cracow, Poland 2019
- STAR Regional Meetings 2013 – 2017

Outreach

- Become a Scientist for One Day (Staň se na den vědkyní, in Czech)
- CERN Master Classes for secondary school students
- Czech organizational board for International Young Physicists’ Tournament 2011 –
- Organizational board for Yale Physics Olympics, Yale University, USA 2005 – 2007
- Editorial board of student popular science magazine “Pictures of Yellow Roses”,
Faculty of Mathematics and Physics, Charles University, Czech Republic 1993 – 1997

Publications:

Author and co-author of more than 530 scientific publications in refereed journals and conference proceedings.

Conference Presentations:

58 public presentations including 40 talks at conferences and workshops, 14 seminars at universities and laboratories, and 4 posters.