Radomír Šmída

Date of birth: November 25th, 1978
Address: Institute of Physics, Academy of Sciences of the Czech Republic,
Na Slovance 2, CZ-182 21 Prague 8, Czech Republic
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CURRICULUM VITAE

Education:

Ph.D. Study (2002-2009):
Charles University in Prague, Faculty of Mathematics and Physics
Study program: Theoretical Physics, Astronomy and Astrophysics,
Ph.D. thesis: Cosmic-Ray with the Pierre Auger Observatory

M.A. (1997-2002):
Charles University in Prague, Faculty of Mathematics and Physics, 2002
Study program: Physics, Specialization: Astronomy and Astrophysics,
Diploma thesis: Very High Energy Astrophysics

Experience:

- Institute of Physics, Academy of Sciences of the Czech Republic (since 2001)
- Astronomical Institute, Academy of Sciences of the Czech Republic (2001-02)
- Seminars and presentations for students and public

Main research interests:

- Cosmic rays (measurement, detector performance, simulations and data analysis)
- High-energy astrophysics (measurement of gamma-ray bursts, performance of robotic telescopes FRAM and BART)
- Cosmology

Grants:

- Junior research grant of The Grant Agency of the Academy of Sciences of the Czech Republic, *KJB 300100801:* The origin of the highest-energy cosmic rays observed by the Auger experiment (2008-2010)

Students:

- *Nyklíček, Michal*: Study of the anisotropy of cosmic rays measured by AUGER experiment, Faculty of Nuclear Sciences and Physical Engineering at Czech Technical University in Prague (2007)

Research Skills:

Computers – programming in C, C++, basic knowledge of PHP and MySQL
Driving licence

Language knowledge:

English – active
German, Spanish, Polish – passive

Radomír Šmída -- List of Publications:

Journals:

- Abraham, J. et al.: Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory, *Physical Review D 79* (2009) 102001

- Abraham, J. et al.: Observation of the suppression of the flux of cosmic rays above 4x10^19 eV, *Physical Review Letters* 101 (2008) 061101
  (Times cited: 14*)
- Abraham, J. et al.: Upper limit on the diffuse flux of ultrahigh energy tau neutrinos from the Pierre Auger Observatory, *Physical Review Letters* 100 (2008) 211101
  (Times cited: 5*)
- Abraham, J. et al.: Upper limit on the cosmic-ray photon flux above 10^19 eV using the surface detector of the Pierre Auger Observatory, A*stroparticle Physics* 29 (2008) 243
  (Times cited: 9*)
- Abraham, J. et al.: Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei, *Astroparticle Physics* 29 (2008) 188
  (Times cited: 38*)

- Abraham, J. et al.: Correlation of the highest-energy cosmic rays with nearby extragalactic objects, *Science* 318. no. 5852 (2007) 938
  (Times cited: 89*)
- Abraham, J. et al.: Anisotropy studies around the Galactic centre at EeV energies with the Auger Observatory, *Astroparticle Physics* 27 (2007) 244
  (Times cited: 16*)
- Abraham, J. et al.: An upper limit to the photon fraction in cosmic rays above 10^19 eV from the Pierre Auger Observatory, *Astroparticle Physics* 27 (2007) 155
  (Times cited: 20*)

- Jelínek, M. et al.: The bright optical flash from GRB 060117, *Astronomy and Astrophysics* 454 (2006) L119
  (Times cited: 10*)
- Proceedings of 1st C2CR (Prague, 7-13/9/2005), published in *Czechoslovak Journal of Physics* 56 (2006) 1
-
- Prouza, M. and Šmída, R.: The Galactic magnetic field and propagation of ultra-high energy cosmic rays, *Astronomy and Astrophysics* 410 (2003) 1
  (Times cited: 18*)

*Number of citations according to ISI Web of Knowledge till June 2009.

Conferences:

- Šmída, R.: Isotropization of arrival directions of ultra-high energy cosmic rays, *31th ICRC* (2009)

- Anchordoqui, L. et al.: Search for coincidences in time and arrival direction of Auger data with astrophysical transients, *Proceedings of 30th ICRC* (2007)
- BenZvi, S. et al.: New method for atmospheric calibration at the Pierre Auger Observatory using FRAM, a robotic astronomical telescope, *Proceedings of 30th ICRC* (2007)

- Šmída, R.: Particle composition of ultra-high energy cosmic rays, *Proceedings of Week of Doctoral Students*, Charles University (2004) 532

- Hudec, R. et al.: Simultaneous and quasisimultaneous optical data for GRBs, *Gamma-ray burst and afterglow astronomy 2001* 662 (2003) 526

- Hudec, R. et al.: EN: Simultaneous optical data for GRBs, *Gamma-ray bursts in the afterglow era* (2001) 185

Technical papers of the Pierre Auger Collaboration:

- Šmída, R. et al.: Update on coincidences between GRBs and CR events measured till April 2009, *GAP 2009-064* (2009)

- Boháčová, M. et al.: Fluorescence detector uptime calculation, *GAP 2008-071* (2008)

- Boháčová, M. et al.: Cosmic rays from GRBs and SGR 1806-20, *GAP 2006-069* (2006)

Summary:

- 10 articles in journals (219 times cited)
- 3 conference presentations