

## Curriculum vitae - Alena Pravdová

**E-mail:** pravdova@math.cas.cz

**Date and Place of Birth:** October 6, 1971 in Prague, the Czech Republic

**Marital status:** married, two children (born 2002 and 2005)

**Education:**

1995-1999: Charles University, Faculty of Mathematics and Physics, Prague, Ph.D. degree (1999)

1990-1995: Charles University, Faculty of Mathematics and Physics, Prague, Master degree (1995), *Summa cum laude* (1990-1995 average mark: 1,00)

**Professional Appointments:**

1999-now: Researcher at the Institute of Mathematics of the Academy of Sciences of the Czech Republic

**Awards:**

The **Otto Wichterle Award** for young researchers (2004)

**Publications:**

- 44 published papers (29 in international journals, 15 in conference proceedings)
- Inspire database: 43 records, over 1000 citations, h-index 16
- Web of Science: 34 records, 646 citations (without self-citations), h-index 15
- Paper: A. Pravdová, V. Pravda, *Newman-Penrose formalism in higher dimensions: vacuum spacetimes with a non-twisting geodesic multiple Weyl aligned null direction*, Class. Quant. Grav. **25** (2008), 235008  
was elected by the Editorial Board of Class. Quantum Grav. to one of highlights of the years 2008-2009.
- Paper: V. Pravda, A. Pravdová, M. Ortaggio, *Type D Einstein spacetimes in higher dimensions*, Class. Quant. Grav. **24** (2007) 4407-4428  
was elected by the Editorial Board of Class. Quantum Grav. to one of highlights of the years 2007-2008.

**Selected invited lectures:**

- workshop "Models of Gravity", Bremen, 2012 (invited plenary lecture, 60 min)
- 14th Marcell Grossmann Meeting, Stockholm, 2012 (invited talk in a parallel session)
- 19th International Conference on General Relativity and Gravitation, Mexico City, 2010 (invited talk in a parallel session)
- Canadian Mathematical Society Summer Meeting, Halifax, 2004 (invited talk in a parallel session)

**Short research visits:**

Stavanger University (Norway, several visits 2012-2015)

University of Cambridge (UK, 2009, 2012 (2x))

Institute of Mathematics, Utrecht (Netherlands, 2011)

Departement de Mathematiques, Faculte des Sciences (Tours, France, 1999)

Max-Planck Institute (Potsdam, Germany, 1997)

**Long research visits:**

Dalhousie University (Halifax, Canada, 3 months in 2002, 3 months in 2003, 2 months in 2004)

University of Texas (Austin, USA, 2001, 5 months)

Friedrich Schiller University (Jena, Germany, 1998, 6 weeks)

**Student supervision:**

Jan Kubíček (Master thesis, defended in 2015)

Martin Kuchynka, undergraduate student

**Scientific projects:**

- (2014-2018) Project title: Albert Einstein Center for Gravitation and Astrophysics (GAČR Excellence Project 14-37086G), coordinator: Faculty of Mathematics and Physics, Charles University, the Czech Republic, role: team member
- (2013-2017) Project title: Higher dimensional gravity (Research grant 13-10042S), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: team member
- (2013-2015) Project title: Algebraic classification of tensors on Lorentzian manifolds and its applications (Internal support program for projects of international cooperation M100191201), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: team member
- (2010-2012) Project title: General relativity in higher dimensions (Research grant P203/10/0749), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: team member
- (2007-2009) Project title: Solutions of the Einstein equations in higher dimensions (Junior research grant KJB 10190702), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: principal investigator
- (2004-2006) Project title: Curvature invariants and classification of curvature tensors (Junior research grant KJB 1019403), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: team member
- (2004) Nadace českého literárního fondu, the Czech Republic
- (2002-2004) Natural Sciences and Engineering Research Council of Canada, Canada
- (2000-2003) Project title: Symmetries of asymptotically flat spacetimes and radiation (Post-doctoral research grant 202/00/P031), coordinator: Institute of Mathematics of the Academy of Sciences of the Czech Republic, the Czech Republic, role: principal investigator

**Commissions of trust:**

- Reviewer for the following international scientific journals: Classical and Quantum Gravity and Physical Review D.
- Appointed reviewer for Ph.D. Theses at the Charles University, Prague