email: mobile:	ignacy.sawicki@fzu.cz www: <u>ceico.cz/team/researchers/ignacy-sawicki</u> +420 702 222 133
ID:	inspire-HEP – <u>I.Sawicki.1</u> ORCID: <u>0000-0003-2476-9730</u>
EDUCATION	
2003-2007	University of Chicago, USA; Department of Physics PhD Thesis: <u>Modified gravity as dark energy</u> . Advisors: Sean Carroll and Wayne Hu
2002-2003	Imperial College London, UK, Dept. of Physics MSci Quantum Fields and Fundamental Forces, Distinction
1995-1999	University of Cambridge, UK MNatSci Natural Sciences (Physics), First-Class Honours
CURRENT POS	SITION
2017-	Institute of Physics of Czech Academy of Sciences, Prague, Czech Republic Senior Researcher Deputy Head of Cosmology and Gravity Department (since 2022)
	Leader, CEICO Research Project 1: "Late Universe"
PREVIOUS PO	SITIONS
2014-2016	University of Geneva, Switzerland
	Marie Skłodowska-Curie Fellow, Dept. of Theoretical Physics
2014	African Institute of Mathematical Sciences, Cape Town, South Africa Visiting researcher
2010-2013	University of Heidelberg, Germany Postdoctoral researcher, Institute for Theoretical Physics
2007-2010	New York University, USA James Arthur Postdoctoral Fellow, Center for Cosmology and Particle Physics
1999-2002	Morgan Stanley International, London, UK Financial Analyst, Investment Banking Division
PRIZES AND F	ELLOWSHIPS (for grants, see section D2, page 7)
2014	Marie Skłodowska-Curie Fellowship (European Commission, €270k) Project DRKFRS hosted at University of Geneva
2007 2007	James Arthur Fellowship (New York University, \$200k) Gregor Wentzel Prize for Best Physics Thesis (University of Chicago)
SUPERVISION	OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS
2022-24	Supervisor for MSCA (Horizon Europe) fellow L. Trombetta
2020-	Supervision of PhD student (G. Trenkler)
	PhD thesis committee H. Steigerwald (2015) and P. Jiroušek (2022)
2018-2022	Supervision of two postdocs (L. Reverberi and I. Saltas), CEICO, Prague
earlier:	Co-supervision of one postdoc (E. Bellini) and one PhD student (M. Motta)
ORGANISATIC	ON OF INTERNATIONAL SCIENTIFIC MEETINGS
2018 & 2022	Gravity@Prague school for 80 advanced PhD students, main organiser
2021	Synergies@Prague workshop with 20 speakers, co-organiser
2019	MultiMessenger@Prague workshop with 20 speakers and 40 attendees, co-organiser
earlier:	Co-organiser of 2 advanced schools and 1 international conference.

REVIEWING ACTIVITIES

- Journals referee for more than 100 articles for Physics Review Letters, Journal of Cosmology and Astroparticle Physics, Physics Review D, Physics Letters B, Monthly Notices of the Royal Astronomical Society and others.
- Agencies Evaluator for NWO (Netherlands). DFG (Germany), ETAg (Estonia), FONDECYT (Chile)

PUBLIC CODES

hi_class Implementation of modified gravity in the CLASS Einstein-Boltzmann code. Used by around 40 groups including Planck and Euclid

INVITED TALKS AT INTERNATIONAL CONFERENCES

- 3.11.2019 "Where to in Dark Energy", AstroPart conference, Saclay France
 22.01.2019 "Dark energy, Modified Gravity and LIGO", Winter Mini-Workshop, Univ. of Warsaw, Poland
 10.06.2018 "Madified Gravity After LIGO", 14th Patters Workshop, DEGY, Llopphyre, Correspondence
- 19.06.2018 "Modified Gravity, After LIGO", 14th Patras Workshop, DESY, Hamburg, Germany
- 09.09.2017 "Vorticity in the Time of Galaxy Surveys", DARKMOD, Saclay, France
- 04.04.2016 "Disambiguating the Dark Side", Theoretical Cosmology in the Era of Large Surveys, GGI, Florence, Italy
- earlier: 13 invited talks at international conferences

INVITED LECTURE SERIES TO ADVANCED SCHOOLS

- June 2019 Gravitational Wave Challenges and Cosmology, summer school of the International Institute of Physics, Natal, Brazil
- June 2018 Summer School on Large-Scale Structure, Max Planck Institute, Berlin, Germany Dark energy and Modified Gravity
- July 20184th Jagiellonian School on Cosmology, Kraków, Poland
Dark energy and Modified Gravity
- Nov 2014 Xth Mexican School on Gravitation, Playa del Carmen Cosmology in the Time of Dark Energy

MEDIA APPEARANCES

- Feb 2022Seznam.cz:https://www.seznamzpravy.cz/clanek/zahranicni-vesmirna-megasrazka-obri-cerne-diry-se-mozna-stretnou-uz-za-sto-dni-187487Nov 2021Polish TVP1: Astronarium Ep. 129 Dark Energy
- https://www.youtube.com/watch?v=3Y1GPZCapxY

SELECTED PUBLICATIONS RELEVANT TO PROPOSAL IN LAST 5 YEARS

Author of 38 refereed primary journal articles and contributor to two review articles. My work has so far gained over 7900 citations (7200 excluding self-citations), giving me an h-index of 32 according to the Inspire-HEP database. 20 of these papers have more than 100 citations.

- 1. T. Baker, E. Bellini, P. G. Ferreira, M. Lagos, J. Noller, and I. Sawicki, *Strong constraints on cosmological gravity from GW170817 and GRB 170817A*, <u>Phys.Rev.Lett. 119 (2017) 25</u> [586] (PRL Editor's Suggestion)
- 2. M. Zumalácarregui, E. Bellini and I. Sawicki, J. Lesgourges, and P.G. Ferreira, *hi_class: Horndeski in the Cosmic Linear Anistropy Solving System*, JCAP 08 (2017) 019 [146]
- 3. L. Amendola, M. Kunz, I. D. Saltas, I. Sawicki, *Fate of Large-Scale Structure in Modified Gravity After GW170817 and GRB170817A*, Phys. Rev. Lett. 120 (2018) 13 [103]
- 4. L. Amendola, I. Sawicki, M. Kunz, I. D. Saltas, *Direct detection of gravitational waves can measure the time variation of the Planck mass*, JCAP 08 (2018) 030 [63]
- 5. I. D. Saltas, I. Sawicki and I. Lopez, White dwarfs and revelations, <u>JCAP 05 (2018) 028</u> [40]