

Volker Beckmann



MESR / DGRI / SSRI / A7

Curriculum Vitae

June 13, 2024

Objective:

To enable research through my management and scientific skills based on my experience in international working environments.

Personal Information

Name: **Volker BECKMANN**
 Citizenship: German and French
 Present Position: Agent for the European Open Science Cloud
 at the French Ministry of Higher Education and Research
 (MESR)
 Address: MESR / DGRI / SSRI / A7
 23 Avenue du Dr. Lannelongue,
 75014 Paris, France
 Telephone: +33 (0)6 14 12 69 17
 E-mail: volker.beckmann@recherche.gouv.fr

Education

- 2010 *Habilitation à diriger des recherches* (the highest degree achievable in the French system) at Université Paris Diderot. Thesis title: *Unification of Active Galactic Nuclei at X-rays and soft gamma-rays*. Referees: Prof. Dr. Pierre Binétruy, Prof. Dr. Peter von Ballmoos, Prof. Dr. Chris Done, Dr. Catherine Boisson.
 Defended on September 10, 2010.
- 1996/2001 PhD at University of Hamburg, Hamburger Sternwarte in Astrophysics. Thesis title: *Evolutionary behaviour of AGN - investigations on BL Lac objects and Seyfert II galaxies*. Referees: Prof. Dr. Dieter Reimers (Hamburger Sternwarte), and Prof. Dr. Laura Maraschi (Osservatorio Astronomico di Brera).
 PhD defended on January 12, 2001. Grade: *magna cum laude*
- 1993/96 *Diplom* (\approx Master) in Physics at the University of Hamburg. Thesis: *X-ray spectral index of RASS-AGN*. Referees: Prof. Dr. Sjur Refsdal and Prof. Dr. Dieter Reimers (Hamburger Sternwarte). Grade: *cum laude*
- 1989/93 *Vordiplom* (\approx Bachelor) in Physics at the University of Hamburg

Work history	
since September 2020	Agent (<i>chargé de mission</i>) at the French Ministry of Higher Education and Research (MESR) for the implementation of the <i>European Open Science Cloud</i> (EOSC) in France. Co-chair of the EOSC Steering Board and of the ESFRI-EOSC Task Force, member of the Horizon Europe research infrastructure programme committee, French delegate at e-IRG, chair of the <i>Collège EOSC-France</i> and of the <i>Groupe Thématique Infrastructures de Services aux Données</i> .
05/2016 – 08/2020	Scientific director at the Institute of Nuclear and Particle Physics of the French National Center for Scientific Research (CNRS / IN2P3) for computing and data science.
09/2009 – 04/2016	Researcher CNRS, working for the APC laboratory (Université Paris Diderot). Project scientist of the François Arago Centre (FACe), a data and computing centre for astroparticle physics. <i>Euclid</i> and <i>SVOM/ECLAIRs</i> data processing project manager at APC. PhD and master student supervisor.
04/2007 – 08/2009	<i>Collaborateur Scientifique</i> at the University of Geneva, working at the ISDC Data Centre for Astrophysics. Operations coordinator and instrument specialist for the spectrograph SPI of the <i>INTEGRAL</i> mission at the ISDC. July 2007 until August 2009 also <i>INTEGRAL</i> project manager.
10/2003 – 03/2007	Working as a Research Associate for UMBC at NASA/Goddard Space Flight Center. Since July 2006 head of the <i>INTEGRAL</i> guest observer facility at NASA. Since August 2006 Assistant Research Professor at UMBC.
02/2001 – 09/2003	Working for the IAAT (University of Tübingen) at the ISDC. Developing and integrating analysis software for <i>INTEGRAL</i> , support of operations of the <i>INTEGRAL</i> satellite. Instrument specialist for the <i>INTEGRAL</i> /SPI spectrometer.
May – July 2000	Working at the <i>Osservatorio Astronomico di Brera</i> in Milan, financed by an Italian grant (CNR).
April – Sep. 1999	Working at the <i>Osservatorio Astronomico di Brera</i> , financed by the Deutsche Akademische Austauschdienst (DAAD). Data analysis of <i>BeppoSAX</i> satellite spectra.
1996 – 2000	Scientific assistant researcher at the Hamburger Sternwarte, financed by the Deutsche Forschungsgemeinschaft (DFG). Data analysis for the Hamburg/ESO Quasar Survey; preparation, execution, and analysis of optical observation runs at several telescope sites.

Experience and achievements

Teaching experience

I taught the topic of "Active Galactic Nuclei" as invited lecturer at the Cargèse school 2013 on "Cosmic Accelerators". In 2016 I was again invited to deliver the lecture on "Active Galactic Nuclei" at the Cargèse school on "Astrophysical Jets", and was co-organiser of the schools "Cosmic Explosions" (2019) and "The Transient Universe 2023", where I gave the lecture on "Open and FAIR data".

The University of Maryland Baltimore County (UMBC) gave me the opportunity to teach undergraduate courses: one semester on "Stellar Astrophysics", and one on "Extragalactic Astronomy and Cosmology". The teaching included the design of the course, development of the course structure and topics to be covered. Each course consisted of 30 lectures, weekly homework assignments including correction and evaluation of the students' work, 3 exams (two midterm and one final exam) in each course, and the final grading. In addition, this included open office hours, providing advice and support to students. See the courses' websites under:

<http://asd.gsfc.nasa.gov/Volker.Beckmann/edu/index.html>

<http://www.apc.univ-paris7.fr/~beckmann/physics316/index.html>

Supervising experience

Supervision or co-supervision of 20 students (among which 5 PhD students).

Publications

About 330 publications in total with ~ 7600 citations. H-index: 43

- Text book: Beckmann & Shrader, "Active Galactic Nuclei", Wiley-VCH, August 2012.
- 81 publications in international refereed journals, including 17 as lead author
- 35 publications in international refereed conference proceedings including 10 as lead author.
- 31 publications in non-refereed conference proceedings including 12 as lead author.
- 94 Astronomer's Telegrams including 3 as lead author.
- 36 GRB Circular Network (GCN) reports including 7 as lead author.

Refereeing and Committees

I am a member of the EOSC Steering Board and was a member of the EOSC Governance Board in 2020. In May 2021 I have been elected to represent the EOSC Steering Board members (i.e. the EU member states and associated countries) in the EOSC Partnership Board, since February 2022 I am co-chair of the EOSC Steering Board, and since June 2023 I am the co-chair of the ESFRI-EOSC task force. I am also the French delegate at the e-IRG, the European e-infrastructure reflection group, and I am serving on the Horizon-Europe Programme Committee. In France I am the chair of the *Collège EOSC-France*, the French national EOSC initiative, and of the *Groupe Thématique Infrastructures des Services aux Données*.

From 2017 until 2020 I was member of the Large Hadron Collider Experiments Committee (LHCC), and in 2019/2020 I was chief reviewer for the world-wide LHC computing (WLCG). The LHCC Committee follows the development of the experimental programme for LHC and monitors the progress of approved experiments. Also from 2017 until 2019 I was chair of the EU-T0 Consortium Board. EU-T0 is a consortium of funding agencies and organisations which between them fund and provide very large scale computing and data processing resources for a set of scientific communities which already have Exabyte scale requirements. I have been also a member of the EGI Council from 2016 to 2020.

I am a referee for the *Astrophysical Journal*, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Advances in Space Research*, *Experimental Astronomy*, and for *Astrophysics and Space Science*. Since 2017 I am editor-in-chief of the journal “Computing and Software for Big Science” (Springer). I have been a referee to evaluate research projects and colleagues for the Agence Nationale de la Recherche (ANR), for the European Marie-Curie Fellowship program, for the Swiss National Science Foundation, for the ETH Zürich and for the EPFL in Lausanne, for the Canada Research Chairs program, for the Chilean National Fund for Scientific and Technological Development (FONDECYT), for the South African National Science Foundation, for the Swedish Knut and Alice Wallenberg Foundation, for the Dutch LEaDing Fellows Programme, for the University of Sharjah, and for the Georgia National Science Foundation. I have been a member of the *INTEGRAL* Time Allocation Committee (2007-2009 and 2012/2013) and was a member of the *Fermi* review panel for several years. I was also a member of the “Conseil scientifique du Campus Spatial” at Université Paris Diderot, and served on ESA’s Payload Review Committee for an M-class mission. From 2015 until 2019 I was a member of the *INTEGRAL Users Group*, ESA’s scientific steering committee of the *INTEGRAL* mission.

Conference and meeting organisation

- member of the programme committee of the EOSC Symposium 2022, 2023, and 2024
- co-organiser of the EOSC-France tripartite event in June 2023 in Montpellier and in September 2024 in Paris
- co-organiser of the school on “The Transient Universe 2023” that took place in Cargèse (Corsica)
- organiser of the "EOSC Steering Board" meeting in Paris in June 2022
- co-organiser of the "Journées EOSC France" in April 2022
- organiser of the "Horizon Europe EOSC" workshop in June and September 2021

- organiser of the "Journées EOSC France" in February 2021
- organiser of the "Journée EOSC au CNRS" in January 2020.
- co-organiser of the IN2P3 workshop on Quantum Computing in December 2019.
- co-organiser of the school on "Cosmic Explosions" that took place in Cargèse (Corsica) in 2019.
- I was the main scientific organiser of a Focus Meeting on radio galaxies at the IAU General Assembly in 2018 in Vienna.
- In 2016 I was co-organiser of the Cargèse 2016 school on "Astrophysical Jets", giving the lectures on Active Galactic Nuclei.
- From 2013 to 2015 I was co-organising the weekly high-energy group meeting at APC
- For the 40th COSPAR Assembly in Moscow in July 2014 I was deputy scientific organiser of a 3 half-day session on compact objects.
- I was co-organiser of a school in Cargèse in 2013 on "Cosmic Accelerators", with 65 attending PhD students and young post-Docs, 15 international experts, and gave here the lecture on Active Galactic Nuclei.
- I was part of the local organising committee of the 10th INTEGRAL workshop which took place in October 2012 in Paris.
- For the 39th COSPAR Scientific Assembly in Mysore (India) in July 2012 I was the main scientific organiser of a 3 half-day session on Seyfert galaxies.
- Together with Jérôme Rodriguez (CEA/Saclay) I organised the 2006 "school" on high-energy astrophysics entitled "Observing the X- and Gamma-ray Sky" in Cargèse (Corsica).

Public Outreach

- 2016 Educator at the second Massive Open Online Course (MOOC) on gravitation, cosmology, and black holes
- 2015 Educator at the first Massive Open Online Course (MOOC) on gravitation, cosmology, and black holes
- 2007 – 2009 Public outreach activities for the ISDC Data Centre for Astrophysics. Close collaboration with the *Collège du Léman*.
- 2003 – 2007 Public talks in the US on popular astrophysical topics, like space based astronomy, neutron stars and black holes, etc.
- 2001 – 2003 Supporting public events at the ISDC. This included visits of school classes at the ISDC to whom we would introduce the techniques and science of *INTEGRAL*.
- 1998 – 2000 Press related work for the Hamburger Sternwarte. Here I was responsible to work with print media, radio and television. This resulted in frequent appearance of the observatory in the news, and in several features about our work on local radio stations as well as on local and nation-wide television.
- 1998 – 2000 Together with high-schools we organised practical days for school classes at the observatory. This also included lectures given in schools.
- 1996 – 1999 Organisation of public outreach work at the Hamburger Sternwarte.
This included the monthly open-telescope-nights, talks about astronomical topics to the public, and guided tours of the observatory.

Press releases

Several results of my work were featured in press releases by ESA, NASA, UMBC, and the Université de Genève. For a full list see

http://www.apc.univ-paris7.fr/~beckmann/english/e_press.htm

Language skills

- German (native speaker)
- English (fluent)
- French (fluent)
- Italian (advanced)

Selected publications

Beckmann 2019, "Mechanisms to align national investments relevant to the objectives of the EOSC", EOSCpilot project

Veynante, Bidoit, Dayde, et al. 2018, "Livre Blanc sur les données au CNRS: Etat des lieux et pratiques", MICADO / CNRS publication

Berghöfer, Agrafioti, Allen, Beckmann, et al. 2015, "Towards a Model for Computing in European Astroparticle Physics", White Paper, APPEC / DESY

Beckmann & Shrader, 2012, "Active Galactic Nuclei", Wiley-VCH, 380 pages

Beckmann, Jean, Lubinski, Soldi, & Terrier 2011, "The Hard X-ray Emission of Cen A", Astronomy & Astrophysics, 531, 70

Beckmann, Soldi, Ricci, et al. 2009, "The Second INTEGRAL AGN Catalogue", Astronomy & Astrophysics 505, 417

Beckmann, Barthelmy, Courvoisier, et al. 2007, "Hard X-ray Variability of AGN", Astronomy & Astrophysics, 475, 827

Beckmann, Soldi, Shrader, Gehrels, Produit 2006, "The Hard X-ray 20-40 keV AGN Luminosity Function", Astrophysical Journal, 652, 126

Beckmann, Engels, Bade, Wucknitz, 2003, "The HRX-BL Lac sample - unification of HBLs and LBLs", Astronomy & Astrophysics, 401, 924