

Name: Prof. Dr. Beata Ziaja-Motyka

Affiliations: Center for Free-Electron Laser Science CFEL, Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany and H. Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences IFJ PAN, Krakow, Poland;

Research Topics: Multidisciplinary Theoretical Research within Ultrafast X-ray Science; High Energy Physics; Scientific Software Development

Present position: Group Leader of the DESY research group "X-ray Irradiated Materials: Theory and Computation" CFEL-XM and Full Professor at IFJ PAN

Professional employment and academic education:

- 2020 –** Leader of the DESY research group, FS-CFEL-XM, "X-ray Irradiated Materials: Theory and Computation" and Full Professor at IFJ PAN.
- 2010 – 2020** Leader of the Topical Group "Modeling of Complex Systems" within CFEL-DESY Theory Group at DESY, Hamburg, Germany
- 2012 –** Professor at the Institute of Nuclear Physics in Krakow, Poland - received professor title (Professor of Physical Sciences) from the President of Poland
- 2009 - 2010** CFEL, DESY, Hamburg, Germany: Continuation of the project on the interaction of free-electron-laser radiation with matter with the focus on coherent diffractive imaging studies within the group of Prof. H. Chapman
- 2006 – 2009** HASYLAB, DESY, Hamburg, Germany: Leader of the project on theoretical modeling of the interaction of free-electron-laser radiation with matter within the group of Prof. E. Weckert
- 2004 - 2006** HASYLAB, DESY, Hamburg: Research fellow of the Alexander von Humboldt Foundation. Hosts: Prof. T. Möller and Prof. E. Weckert
- 2004 – 2012** Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland: Associate Professor (permanent research position)
- 2004** Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland, Doctor Habilitatus of Physics. Habilitation thesis with award
- 2000 – 2002** Biomedical Center, University of Uppsala, Uppsala, Sweden: Postdoctoral Research Fellow with Prof. J. Hajdu
- 2000** Institute of Physics, University of Uppsala, Uppsala, Sweden: Guest Researcher in High Energy Physics group of Prof. G. Ingelman (8 months)
- 1998 - 2003** Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland: Senior Research Associate (permanent research position)
- 1997** Jagiellonian University, Krakow, Poland: Doctor of Physics.
- 1993** Jagiellonian University, Krakow, Poland: Master of Science in Physics with award
- 1992 - 1993** Jagiellonian University, Krakow, Poland: completed two years of undergraduate studies in computer science

Honours, distinctions, scholarships, awards:

- 2024** Received the Award of the Polish Ministry for Science and Higher Education for significant scientific achievements
- 2024 - 2023 -** PI of the Joint Research Project DESY and IFJ PAN
- 2023 -** Member of the COST Action CA22148 "An international network for Non-linear Extreme Ultraviolet to hard X-ray techniques" (NEXT)
- 2021 -** Project leader of the DESY Generator Programme project
- 2021 - 2024** Co-PI of the European XFEL R&D grant
- 2019 - 2024** Co-PI of the Joint Research Project EuXFEL and IFJ PAN.
- 2018 - 2023** Member of the COST Action 17126 "Towards understanding and modelling intense

- electronic excitation" (TUMIEE)
- 2016 - 2019** DESY Partner of the project "XUV-Pulsdauermeßapparatur" financed by the Ministry of Science and Education (BMBF), within the programme "Erforschung der kondensierten Materie an Großgeräten"
- 2012 – 2018** Member of the Hamburg Centre for Ultrafast Imaging funded within the excellence initiative by the German federal and state governments at the University of Hamburg
- 2004 - 2006** Research fellow of the Alexander von Humboldt Foundation at DESY, Hamburg, Germany.
- 2004** Habilitation Thesis with Award
- 2003** Henryk Niewodniczanski Prize in Physics granted by Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland
- 2003** Project Leader of one-year individual research project "Radiation Damage in Structural Studies with Free-Electron-Lasers" granted by the Polish State Committee for Scientific Research
- 2002 – 2003** Institute of Nuclear Physics, Polish Academy of Sciences, Krakow, Poland: Habilitation Scholarship
- 2002** Distinguished Research Award granted by the Swedish Wenner-Grenska Samfundet for outstanding scientific achievements from a postdoctoral fellow supported by the Foundation
- 2000-2001** Project Leader of two-year individual research project: "Theoretical analysis of the Deep Inelastic Scattering at Low Bjorken x" granted by the Polish State Committee for Scientific Research
- 2000** Research Scholarship of the Polish Stefan Batory Foundation
- 1998** Project Leader of two-year individual project: "Theoretical and Phenomenological Analysis of Spin Structure Function of Nucleon" granted by the Polish State Committee for Scientific Research
- 1997** Research Award of the Foundation for the Polish Science
- 1994 - 1996** Nine-month-research scholarship of Heinrich-Hertz Foundation at the Institute of Theoretical Physics, Ruhr-Universität Bochum, Germany
- 1992 - 1993** Two Awards of the Polish Ministry of Education
- 1991** Golden Award of the Polish Foundation "Primus Inter Pares"

Supervisory work:

- 2002 -** (Co)supervision of **6** PhD students and **6** postdoctoral researchers

Total number of (invited) conference talks and lectures in 2018-2023: 40

Selected professional memberships:

- 2023 –** Principal Investigator of the "Data Science in Hamburg Helmholtz Graduate School" (DASHH); Reviewer for 'Nature Communications' journal
- 2021 –** Member of the DESY Photon Science Scientific Board
- 2018 – 2023** Member of the Proposal Review Panel for Small Quantum Systems of the European XFEL
- 2017 –** Editorial Board Member of Nature's Scientific Reports journal, Section: Condensed Matter Physics
- 2015 –** Reviewer of Research Proposals for 'Deutsche Forschungsgemeinschaft' (DFG), Germany; Member of Polish Physical Society (PTF); Member of German Physical Society (DPG)
- 2012 –** Faculty member of the International Max Planck Research School for Ultrafast Imaging & Structural Dynamics (IMPRS-UFAST)
- 2012 –** Faculty member of the Wolfgang Pauli Centre (WPC), Hamburg University and DESY.
- 2009 -** Co-organizer of various scientific meetings and member of various conference programme/organization committees (e.g., WDM, RPHDM, SPIE XDam, MULTIS);

2006 – COST Action Member (twice)
Member of Societas Humboldtiana Polonorum