

Deutsches Elektronen-Synchrotron DESY

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0 Allgemeines

Seit das DESY-Direktorium im Jahr 2009 beschlossen hat, die Astroteilchenphysik bei DESY auszubauen, ist die Entwicklung so erfolgreich, dass zum 1. Januar 2019 ein neuer Forschungsbereich bei DESY eingerichtet wurde. Der wissenschaftliche Schwerpunkt des Standortes Zeuthen liegt auf der Astroteilchenphysik (Gammaastronomie, Neutrinoastronomie, Theory) und insbesondere der Multimessenger-Astronomie. DESY Zeuthen beherbergt eine Einrichtung zur Graduiertenförderung, die International Helmholtz-Weizmann Research School on Multimessenger Astronomy.

1 Personal und Ausstattung

1.1 Personalstand

Direktoren: 1

Prof. Dr. Christian Stegmann (Universität Potsdam)

Professoren: 4

Prof. Dr. Marek Kowalski (HU), Prof. Dr. David Berge (HU), Prof. Dr. Walter Winter (HU), Prof. Dr. Martin Pohl (Universität Potsdam), Prof. Dr. Anna Nelles (FAU)

Wissenschaftliche Mitarbeiter: 38, incl. Postdocs

Dr. Markus Ackermann, Dr. Summer Blot, Dr. Timo Karg, Dr. Jakob van Santen, Dr. Steffen Hallmann, Dr. Anil Kumar, Dr. Sarah Mechbal, Dr. Rafael Porto, Dr. Andrew Taylor, Dr. Gihyuk Cho, Dr. Christoph Dlapa, Dr. Gregor Kälin, Dr. Francois Larrouturou, Dr. Xin-Yue Shi, Dr. Michelle Tsirou, Dr. Zixin Yang, Dr. Chengchao Yuan, Dr. Siqi Zhao, Dr. Rolf Bühler, Dr. Markus Garzarczyk, Dr. Gernot Maier, Dr. Gianluca Giavitto, Dr. Stefan Ohm, Dr. Daniel Parsons, Dr. Elisa Püschel, Dr. Iftach Sadeh, Dr. Emma de Ona Wilhelmi, Dr. Arooj Asif, Dr. Victor Barbosa Martins, Dr. Orel Gueta, Dr. Tim Holch, Dr. Nirmal Kaipachery, Dr. Shashank Kumar, Dr. Florian Leitgeb, Dr. Andrea Porelli, Dr. Heike Prokoph, Dr. Jason Watson, Dr. Sylvia Zhu

Doktoranden: 27

Oliver Andre Laurent Asin, Sofia Athanasiadou, Benjamin Bastian-Querner, Samata Das, Nora Feigl, Leander Fischer, Juan Maria Haces Crespo, Jakob Henrichs, Maria Carolina Kherlakian, Tobias Kai Kleiner, Marc Klinger, Ruslan Konno, Neha Navnitkumar Lad, Cristina Lagunas Gualda, Jean Damascene Mbarubucyeye, Abhay Mehta, Zachary Samuel Meyers, Richard Naab, Jannis David Necker, Parth Deepak Pavaskar, Pavlo Plotko, Lilly Pyras, Simeon Reusch, Julian Schliwinski, Vasundhara Shaw, Pedro Ivo Silva Batista, Jonas Sinapius

Sekretariat und Verwaltung: 3

Katrin Varschen, Sarah Seibt, Christiane John

Technische Mitarbeiter: 7

Dr. Merlin Barschke, Dr. Dmitriy Kostiuin, Daniel Maurer, Dr. Thomas Murach, Gabriel Olivera, Alexander Steiner, Dr. Francesco Zappon

2 Wissenschaftliche Arbeiten

2.1 Mitarbeit in Kollaborationen

- Zwicky Transient Facility (ZTF)
- Large Area Survey Telescope (LAST)
- Ultraviolet Transient Astronomy Satellite (ULTRASAT)
- IceCube Neutrino Observatory
- Cherenkov Telescope Array (CTA)
- High Energy Stereoscopic System (HESS)
- Very Energetic Radiation Imaging Telescope Array System (VERITAS)
- Radio Neutrino Observatory (RNO-G)
- FERMI Large Area Telescope (LAT)
- MeV Cube

3 Akademische Abschlussarbeiten

3.1 Dissertationen

Abgeschlossen: 3

- Victor Barbosa Martins, Probing the cosmic-ray pressure in the Virgo Cluster and the origin of the very-high-energy gamma rays of M87 with H.E.S.S. and CTA., Humboldt Universität zu Berlin, 2022.
- Ilse Plaisier, Reconstructing the Arrival Direction of Cosmic Neutrinos with the Radio Neutrino Observatory Greenland (RNO-G). Friedrich-Alexander-Universität Erlangen-Nürnberg, 2022.
- Christoph Welling, Energy Reconstruction for Radio Neutrino Detectors. Friedrich-Alexander-Universität Erlangen-Nürnberg, 2022.

4 Veröffentlichungen

4.1 In referierten Zeitschriften

- C. B. Adams et al. The throughput calibration of the VERITAS telescopes. *Astronomy and astrophysics*, 658:A83, and PUBDB-2022-00948, arXiv:2111.04676. doi: 10.1051/0004-6361/202142275.
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- T. Ahumada et al. In Search of Short Gamma-Ray Burst Optical Counterparts with the Zwicky Transient Facility. *The astrophysical journal / 2*, 932(1):40, and PUBDB-2022-04141, arXiv:2203.11787. doi: 10.3847/1538-4357/ac6c29.
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