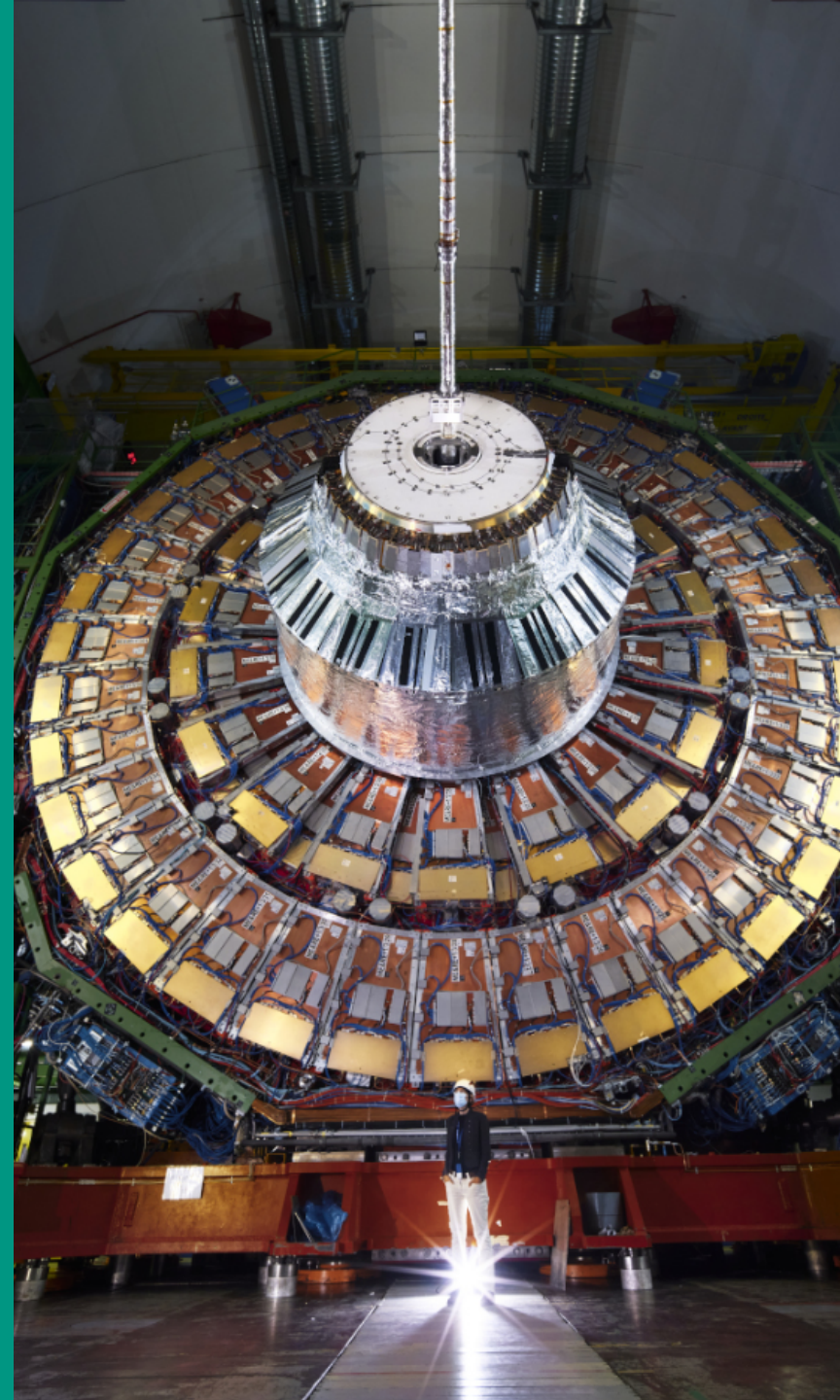


ETP Monday Meeting

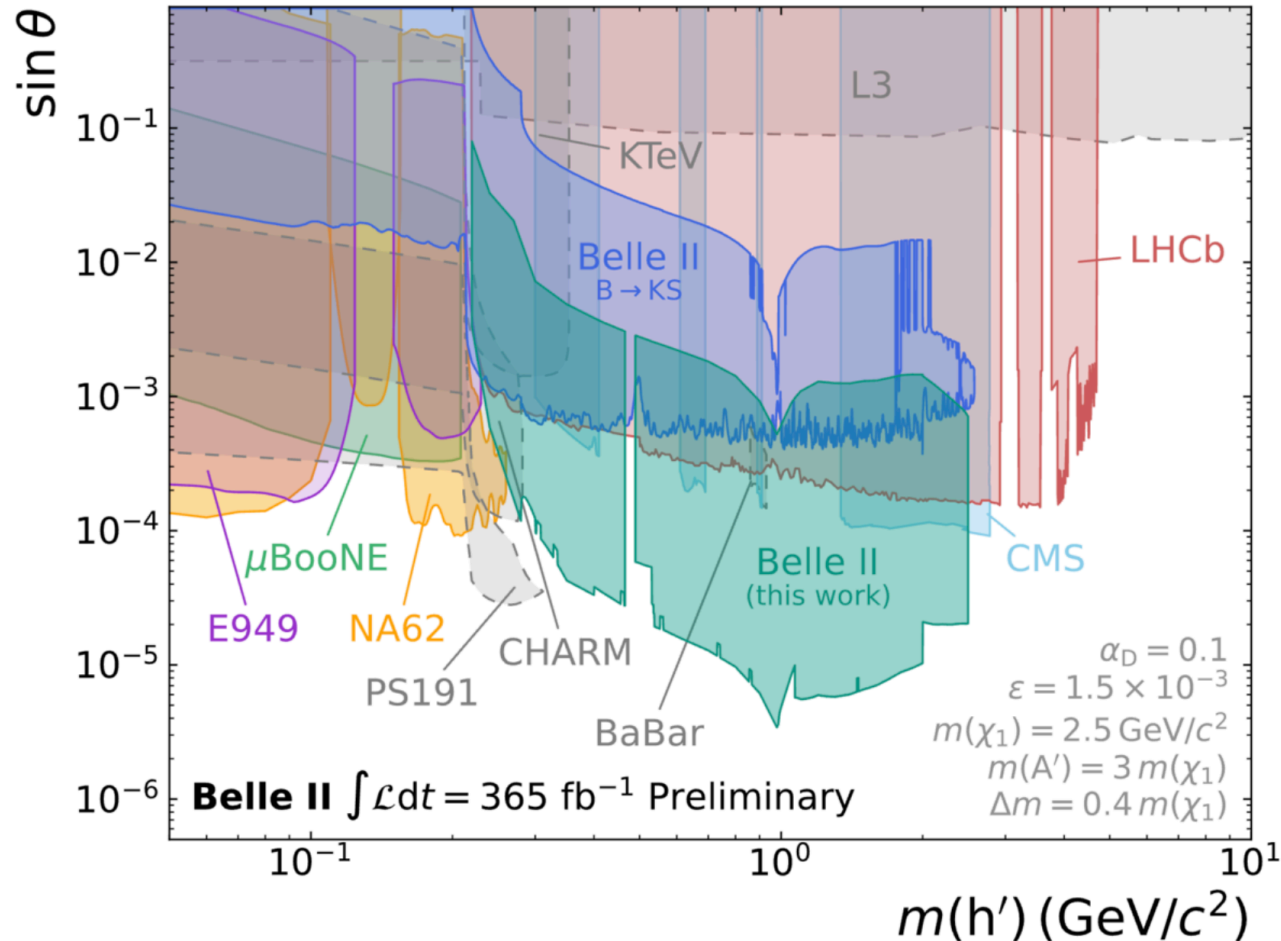
Markus Klute
May 26th, 2025



New Group Members

Please introduce yourself, fill out the “Laufzettel”, and register your thesis

News: Search for a dark Higgs boson



A new analysis from the Belle II experiment presents the first search for a dark Higgs boson produced in association with inelastic dark matter (iDM).

The work was carried out entirely by a team at the Institute of Experimental Particle Physics (ETP) at the Karlsruhe Institute of Technology (KIT), led by PhD student Patrick Ecker, now a postdoctoral researcher at ETP.

News: Belle II Workshop at KIT



As Belle II prepares for its future high-luminosity phases, software, data production, and computing experts from across the collaboration gathered in Karlsruhe, Germany, for the 2025 Joint Computing, Data Production and Software Workshop. Hosted at the Karlsruhe Institute of Technology (KIT) and jointly organized by the Institute for Experimental Particle Physics (ETP) and the Scientific Computing Center (SCC), the workshop brought together around 40 participants from various institutes, many of them from Germany and KIT, for a week of in-depth discussions and collaborative planning.

News: Belle II Tracking Workshop 2025 in Uppsala



In preparation for the next data-taking campaign in late 2025, experts from the Belle II collaboration gathered in Uppsala, Sweden, for their 2025 Tracking Workshop. During this three-day meeting, they discussed one of the critical components of the experiment: reconstructing particle tracks. From detector alignment to high-level trigger performance, the workshop brought together hardware experts, software developers, and analysts for an open exchange of ideas and tools.

News: Workshop in Cosmology and Particle Physics



833. WE-Heraeus-Seminar: New windows on the Universe - exploring the interface of particle physics and gravitational waves

May 18 – 21, 2025
Kitzbühel
Europe/Zurich timezone

Enter your search term

Overview

Scientific Programme

Hotel and Travel Information

Invited Speakers

Young scientist presentations

Organisers

Timetable

Application to participate

Contact

✉ Steven.Bass@cern.ch

This Heraeus Seminar explores the joint role that particle physics and gravitational waves can play in telling us about the physics of the early Universe and the deep structure of matter. Physics topics include phase transitions in the early Universe, black holes (also in connection with dark matter candidates), dark energy, CMB polarisation as a probe of inflation, what the Higgs boson might be telling us as a clue to deeper physics and tiny neutrino masses and possible axion-like particles as probes of new physics at very high scales. The high luminosity upgrade of the LHC, the LISA gravitational waves mission and other key experiments will provide exciting data in the next decade.

The Seminar will promote new synergies between the particle physics and gravitational waves communities in our quest to access this unexplored new physics, including how new quantum sensing technologies can play an important role on the experimental side.

Invited speakers will cover a broad range of key issues in this frontline science with a view to promoting new cross-disciplinary discussion and collaboration. Young researchers (Ph D students and postdocs up to 4 years from Ph D) from the particle physics, gravitational waves and cosmology communities are especially encouraged to apply.


Participation is by invitation. The Seminar is limited to 70 participants.



News: Ulrich Husemann elected to the EPS Executive Committee



© U. Husemann/KIT

At the meeting of the Council of the [European Physical Society](#)  (EPS) in Copenhagen on May 16 and 17, 2025, Prof. Ulrich Husemann was elected to the EPS Executive Committee for two years as a representative of the individual EPS members. Prof. Husemann is a professor of experimental particle physics at the KIT Institute of the same name (ETP).

The EPS promotes physics and fosters cooperation between physicists in Europe. It is both a federation of national societies such as the [German Physical Society](#)  (DPG) and a learned society for individual members. The EPS advances scientific excellence and influences science policy in Europe. The Executive Committee establishes EPS priorities, reviews and develops budgets and pilots EPS activities.

News: Thomas Müller



The Institute for Experimental Particle Physics ETP congratulates colleague Professor Thomas Müller for the endowment of the title “Senior Professor” following a decision of the Senate of Karlsruhe Institute of Technology on April 28., 2025.

With this title KIT recognizes the contributions by Prof. Müller to research, teaching and administration in the past 30 years in Karlsruhe, shaping the modern particle physics group of the ETP with their participations at CERN and at KEK in Japan, and with the promise to contribute to these activities in the foreseeable future.

PhD Defenses 2025

Congrats to

Dr. Nikita Shadskiy, Jan 10th
Dr. Michele Mormille, Jan 10th
Dr. Emanuel Pfeffer, Jan 24th
Dr. Robin Hofsäss, April 25th
Dr. Komal Tauqeer, April 25th
Dr. Lea Stockmeier, May 9th

Upcoming

Lars Sowa, May 30th
Jost von den Driesch, May 30th



KIT Open Day / Campus Day

Many thanks for all your contributions.



ETPacers

Impression from Badische Meile and Geneva Marathon

Upcoming: Bergdorfmeile June 27th, KIT Meisterschaft (10k) July 5th,



Upcoming Events

07.04. - 11.04.2025: CMS Upgrade Week

17.05.2025: Open Day

10.06. - 13.06.2025: CMS Week

04.07.2025: KIT eats

05.07.2025: KIT Meisterschaft (10k)

...TBD.....: ETP Summer Party

02.09. - 12.09.2025: HEP Herbstschule in Bad Honnef

08.09. - 10.09.2025: Belle II FSP in Bonn

17.09. - 19.09.2025: CMS FSP Meeting in Hamburg

25.09.2025: ETP Hike

29.09.-03.10.2025: CMS Week

05.12.2025: ETP Christmas Party

08.12.-12.12.2025: CMS Week in Seoul

