

KAT Strategy Meeting | Karlsruhe, Oct. 16-18, 2024

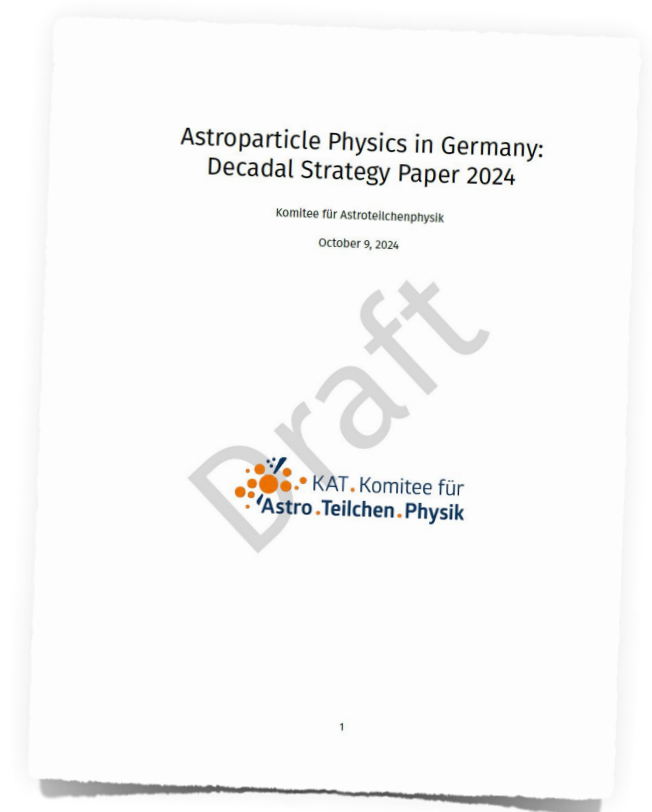
Introduction and objectives of the meeting

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- A community meeting of Astroparticle Physics in Germany — but with a special focus!
- We set out to **define** and **describe** our future goals and strategic aims in a Strategy Paper
- Coverage: the next ~10 years
- Process & paper status: upcoming slot in this session (→ U. Katz)
- **Broad participation** of the community is essential!
 - ▶ All nine topical constituencies of KAT
 - ▶ Cross-section of our astroparticle physicists' population
 - ▶ Not only the group leaders ...

Contributions:
short talks plus ample
discussion time



Plan of the meeting - Wednesday a.m.

09:00	Welcome, Organisation <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Andreas Haungs et al.</i> 09:00 - 09:30
	Introduction and objectives of the meeting <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Kathrin Valerius et al.</i> 09:30 - 10:00
10:00	Current version of the strategy paper <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>The Strategy paper EB</i> 10:00 - 10:30
	Coffee break <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	10:30 - 11:00
11:00	Strategy process in particle physics <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Heiko Lacker</i> 11:00 - 11:45
	Strategy process in RDS <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Joern Wilms</i> 11:45 - 12:30
12:00	Developments in DZA <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Christian Stegmann</i> 12:30 - 13:00

Input from neighbouring communities:
particle physics and
astronomy/astrophysics
→ parallel strategy processes

Plan of the meeting - Wednesday p.m.

14:00	Computing and data <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Andreas Haungs</i> 14:00 - 14:35
	Education and outreach <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Uta Bilow</i> 14:35 - 14:55
15:00	Further overarching topics relevant for the strategy paper <ul style="list-style-type: none">• Educating excellent young scientists• Knowledge and technology transfer, cooperation with industry• International dimension• Sustainability• Diversity and inclusion <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Uli Katz</i> 14:55 - 16:00

Not only our science is important, but also many overarching topics!

Poster session
and buffet dinner

Space to talk about scientific highlights and future projects (40 registered posters!)

- Astroparticle theory (Th. Schwetz)
- Nuclear Astrophysics (U. Oberlack)
- Low-energy neutrino astrophysics (M. Wurm, A. Stahl)
- High-energy neutrino astrophysics (U. Katz, M. Kowalski)
- Cosmic Rays (M. Schmelling)
- Gamma Rays (J. Hinton)
- Gravitational Waves (M. Heurs)
- Neutrino Properties (K. Valerius)
- Dark Matter (M. Lindner)

Topical constituencies present their input on the long-term strategy (paper content, open questions, input still needed ...)

Each topic has time for discussion!

Plan of the meeting - Friday a.m.

09:00	Overview of the Prioritization Process <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Ralph Engel</i> 09:00 - 09:20
	Project presentation: LEGEND <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Bernhard Schwingenheuer</i> 09:20 - 09:45
	Project presentation: IceCube-Gen2 <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Marek Kowalski</i> 09:45 - 10:10
10:00	Project presentation: XLZD <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Marc Schumann et al.</i> 10:10 - 10:35
	Project presentation: Einstein Telescope <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	<i>Harald Lueck</i> 10:35 - 11:00
11:00	Coffee <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	11:00 - 11:30
	Community Meeting: Summary discussion for Strategy Paper <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	11:30 - 12:30
12:00	Adjourn <i>Physics (Bld. 30.22) + NTI-Hörsaal (Bld. 30.10), Karlsruhe Institute of Technology (Campus South)</i>	12:30 - 13:00

← Astroparticle physics projects for the research infrastructure prioritisation process (proposals due to BMBF next week)

← Time to tie up some loose ends

← Next check-in: Bad Honnef, November 28 & 29, 2024

- Please make use of the **manifold opportunities of active participation** at this meeting (and beyond) to provide your input for our strategy process. Comment on present work, spot omissions or highlight relevance of certain aspects ... wherever you can, with illustrative examples!
- Sessions will be tracked with **online note-taking** to preserve the content of the meeting (thanks to L. Gastaldo, T. Huege, A. Kappes, Y. Kovalev, M. Risse, C. Rodenbeck, M. Schlösser, G. Sigl, B. von Krosigk for offering their help!)



A huge **THANK YOU** to the local organising team:
*Andreas Haungs, Ralph Engel, Thomas Schwetz,
Sabine Bucher, Anna Friedrich, Roman Hiller, Bianca Keilhauer,
Katrin Link, Beatrix von Puttkamer, and further supporters*