

## ETP Monday Meeting

10.06.2024

Markus KLUTE (<u>markus.klute@kit.edu</u>)
Institute of Experimental Particle Physics (ETP)



### **New Team Members**



- Marcel Gaisdörfer (PhD student on CMS BSM search)
- Baudry Bartels (master's student on Si R&D HitPix)
- Aaron Wiedl (master's student on FCC Higgs CP tests)
- Lorenzo Asfour (bachelor student on detector design)
- Jonas Floßmann (bachelor student on CMS muon studies)
- Filipp Gostner (bachelor student on FPGA based signal processor)
- Lars Huber (bachelor student on common mode noise)
- Felix Schuckert (bachelor student on HitPix thermal monitor)
- . . .

## "Laufzettel" - Checklist



Please make sure to fill our checklist when joining & leaving the institute!

		Given name:	
Date of birth:			
City and zip code	Str	eet:	Phone number
E-Mail address KI	T:		
E-Mail address pr	ivate:		
Working group:			Prof
Workplace (Bld.):	Ro	oom-No	KIT phone
Emergency conta	ct:		
Name:		Given name:	
Phone number : .			
Please report an	y changes immed	iately to the ETP Ir	nstitute Secretariat,
Ms. Bräunling (C	S) or Ms. Fellner	(CN)	
	cholor und Toacho	r candidates only:	
PhD Master- Rad	Jileioi- unu Teache	r candidates only.	
PhD, Master-, Bad			
	ming for (please ch ☐ Master	neck one box): □ Bachelor	□ Teacher

Contact	Registration (signature)	<b>De-registration</b> (signature)
<b>Prof. U. Husemann</b> CN 401, R. 407 or CS 8-19		
<b>Prof. M. Klute</b> CN 401, R. 329 or CS 9-4		
Prof. T. Ferber CS 9-7		
Prof. G. Quast CS 9-5		

## Teaching Assignments for WS24/25



 We will discuss assignments July 1st. Please let us know if you have preferences

## Options:

- Experimental Physics I (Klaus/Ulrich)
- Python Course (Torben)
- Modern Physics III (Markus)
- TP1 (PP1): WS24/25 Introduction to PP (Pablo/Markus)
- ML Lab Course (Jan)
- Lab courses (P1/P3)

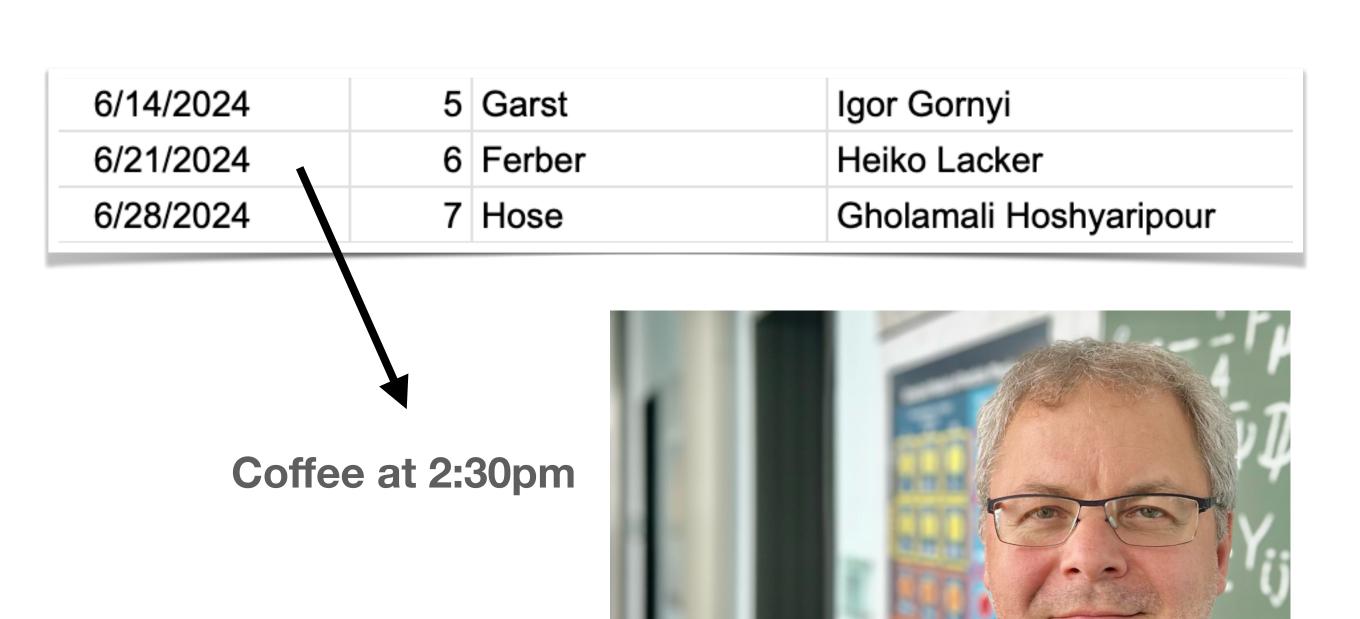
## Colloquia



See emails by Hagen Haberland

 Special colloquium tomorrow (Tuesday 11/6) at 2pm by Michael Spannowsky

- Physics Colloquium
  - Lehmann Hörsaal
  - Friday 15:45 Uhr
  - Program



## Colloquia



- Particle Physics Colloquium
  - Kleiner Hörsaal B
  - Thursday 15:45 Uhr
  - Program

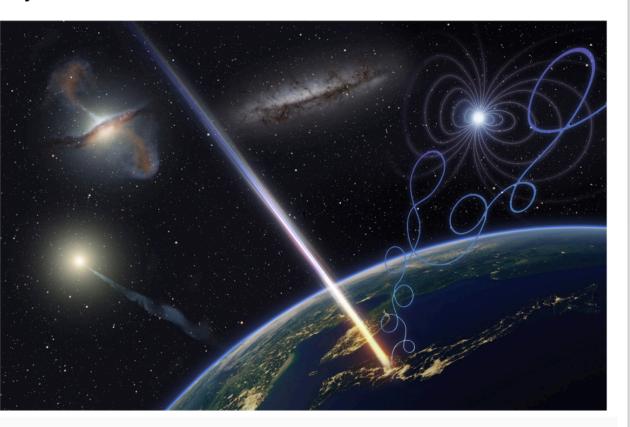
# Cosmic Particles in the Galactic Magnetic Field

Thursday, June 20, 2024 Kleiner Hörsaal A (CS) 15:45 - 17:00

Dr. Michael Unger (KIT)

Galaxies are known to be permeated by large-scale magnetic fields, but the origin of these fields remains a mystery. In this talk, I will present new results on the global structure of the magnetic field of our Galaxy, derived from extragalactic Faraday rotation measures and sky maps of polarized synchrotron emission obtained by WMAP and Planck.

As an application, I will explore the deflections of ultra high-energy cosmic rays within the Galactic magnetic field and discuss how they shape our interpretation of the cosmic-ray dipole. Additionally, I will demonstrate how this new magnetic field model can be used to pinpoint the extragalactic arrival direction of the extremely energetic "Amaterasu particle," recently discovered by the Telescope Array Collaboration, and discuss the implications for our understanding of the origin of ultrahigh-energy cosmic rays.



## Campus Day - last Saturday



Many thanks to all who contributed



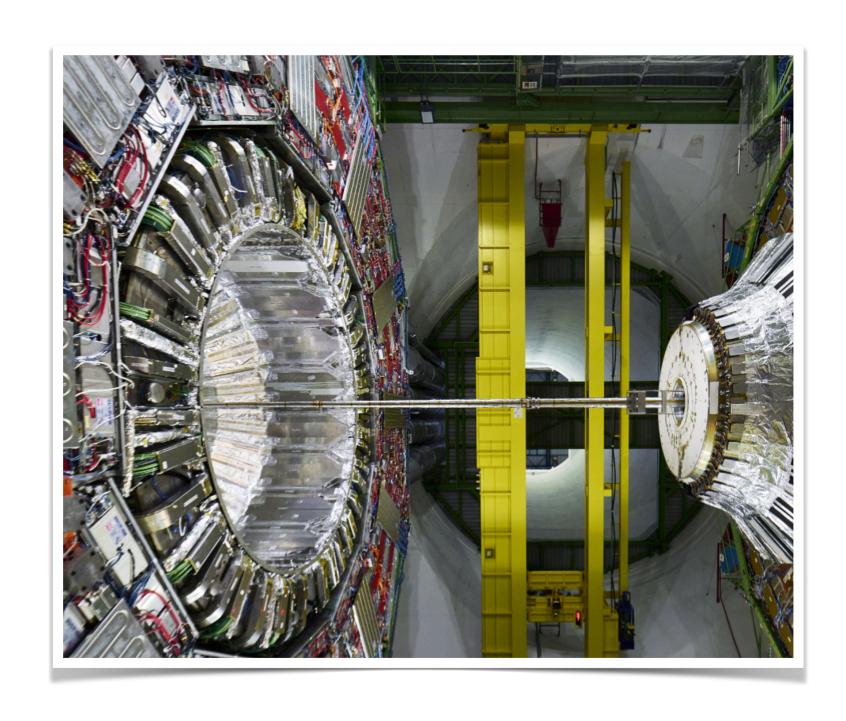
Advertisement was questionable!



## Project days at Thomas-Mann-Gymnasium



- July 15th, 17th & 18th, 9am-1pm
- Project 1: Particle Physics (14 students)
- Project 2: Thermal Camera (15 students)





### CERN-70





## Events planned at KIT

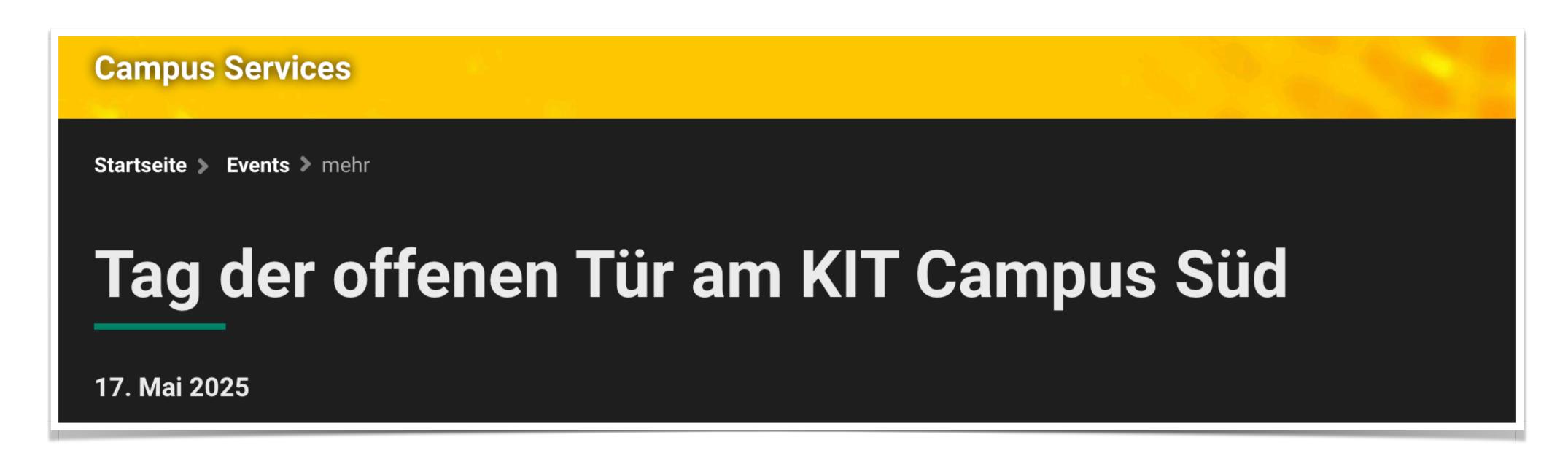
- September 19 Triangle: Open-Air cinema and podiums discussion
- September 20 InformatiKOM: podiums discussion with politicians
- September 21 Triangle: Family & Friends afternoon + Late-Night-Show in the evening

## Open Day 2025



May 17th, 2025 celebrating KIT's 200 birthday

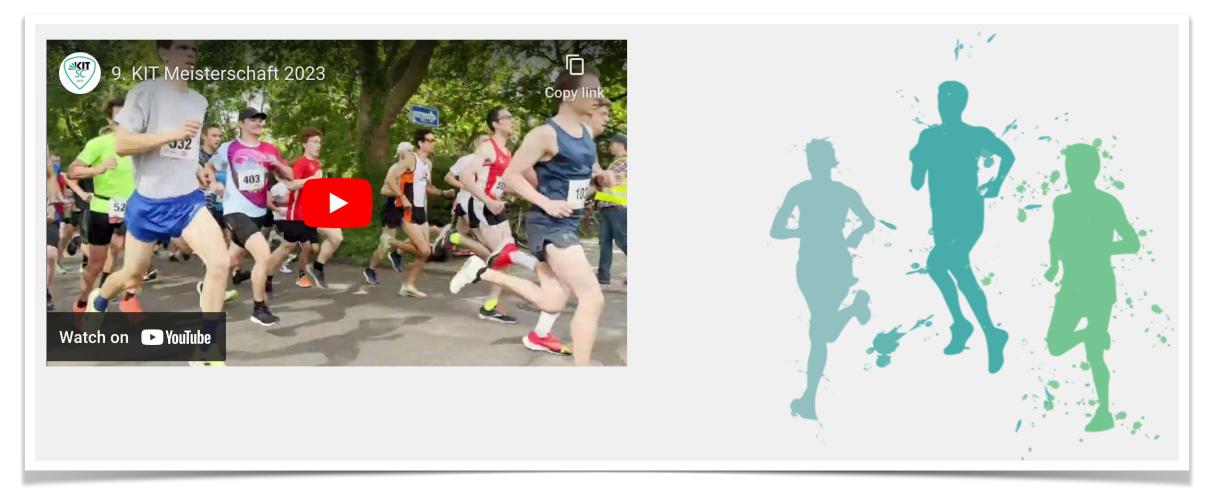
- First digital info event July 3rd, 10am
- Registration by June 28 here <a href="https://www.cse.kit.edu/Kick-off.php">https://www.cse.kit.edu/Kick-off.php</a>



### KIT Meisterschaft



KIT Meisterschaft - 13.07.24



#### https://www.kitsc.de/leichtathletik/kit-meisterschaft/

Ausschreibung 10. KIT Meisterschaft 2024

#### Start:

Der Start findet am 13. Juli 2024 um 9:30 Uhr statt und befindet sich auf dem Engler-Bunte-Ring ca. 50 m südlich des Instituts für Sport und Sportwissenschaft des KIT (Campus Süd, Gebäude 40.40).

Adresse: Engler-Bunte-Ring 13, 76131 Karlsruhe

#### Ziel:

Das Ziel befindet sich im Leichtathletikstadion des KIT Campus Süd.

Adresse: Engler-Bunte-Ring 13, 76131 Karlsruhe

#### Anmeldung:

Hier geht es zur Anmeldung oder über unseren Partner RaceResult.

Die Meldegebühr beträgt 7€ für Studierende, 7€ für Mitarbeiter:innen und 10€ für Externe. Die Meldegebühr beinhaltet die Verbandsabgabe für Volksläufe in der Höhe von 50 Cent pro Teilnehmer.

#### Meldeschluss und Nachmeldungen:

Meldeschluss ist Mittwoch, der 10. Juli 2024 oder wenn das Teilnehmerlimit von 800 Läufern erreicht ist.

Sofern das Teilnehmerlimit nicht erreicht ist, sind bei der Startnummernausgabe am 12. Juli 2024, sowie am Starttag bis 30 Minuten vor dem Start Nachmeldungen mit einer zusätzlichen Nachmeldegebühr von 3 € möglich

#### Startnummernausgabe:

Die Startnummernausgabe findet

- am Freitag, 12. Juli 2024 von 13:00 bis 14:00 Uhr am Institut für Sport und Sportwissenschaft (KIT Campus Süd, Gebäude 40.40) statt.
- Zusätzlich können Startnummern auch am Veranstaltungstag von 8:00 bis 9:00 Uhr am Institut für Sport und Sportwissenschaft abgeholt werden.



### **ETP News**



### **News from ETP**



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### Looking back, looking ahead: DPG Spring Meeting in Karlsruhe

March 04 - 08, 2024

More than 1000 particle physicists met at KIT to discuss current topics in their field. The DPG working group on equal opportunities and the young DPG also participated in the conference program.



Decoding the Darkness: Scientists gather at KIT to discuss the DELight experiment

February 21, 2024

A scientific meeting was held at the ETP, attended by theoretical and experimental physicists from KIT and the universities of Heidelberg and Freiburg.



The SuperKEKB collider has resumed work

February 20, 2024

Belle II has set itself the goal of discovering new physical phenomena that could be the key to the mystery of the origin of the universe.

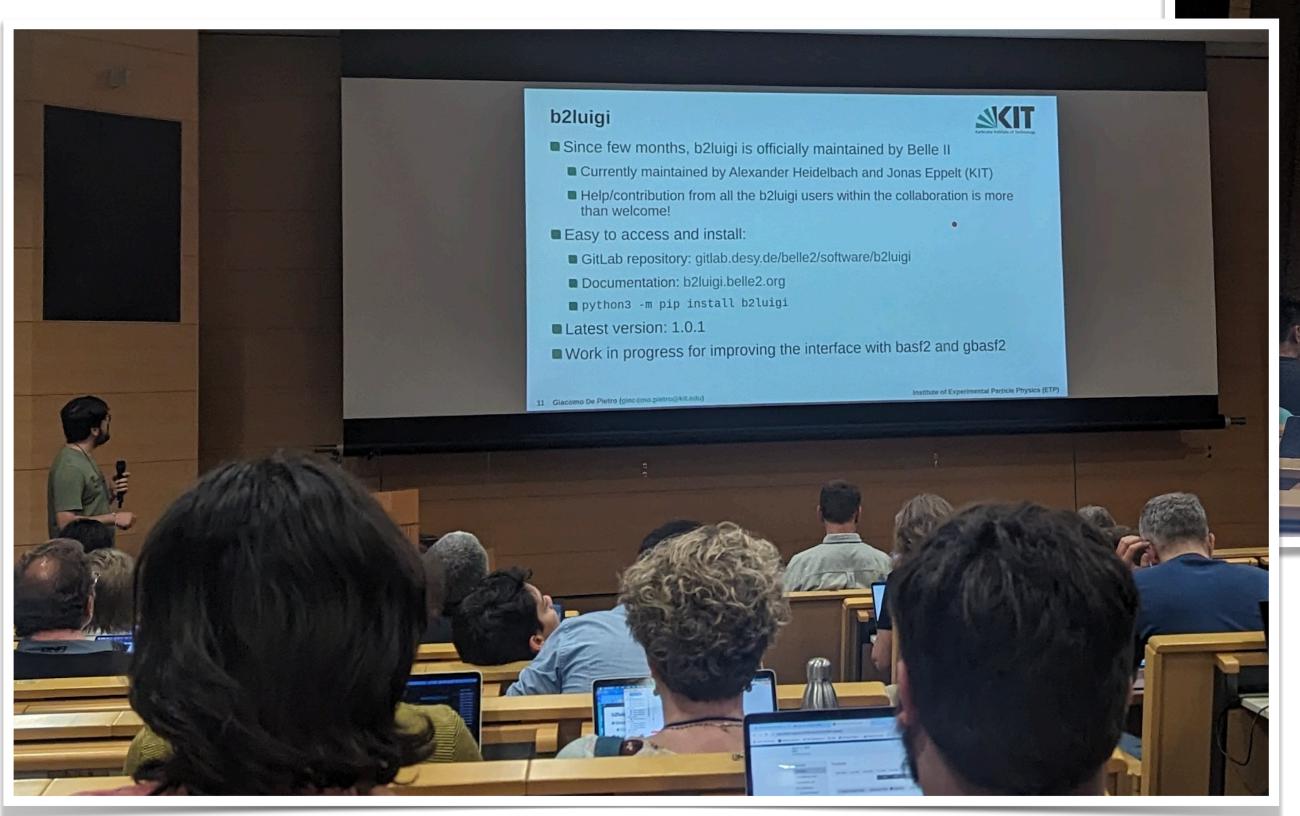
- "Not sufficient to do great work, you also have to talk about it" (Jerry Friedman)
- Please add contributions!
  - Scientific results, outreach, ETP events, like campus day, girls day, badische meile, hikes, etc.

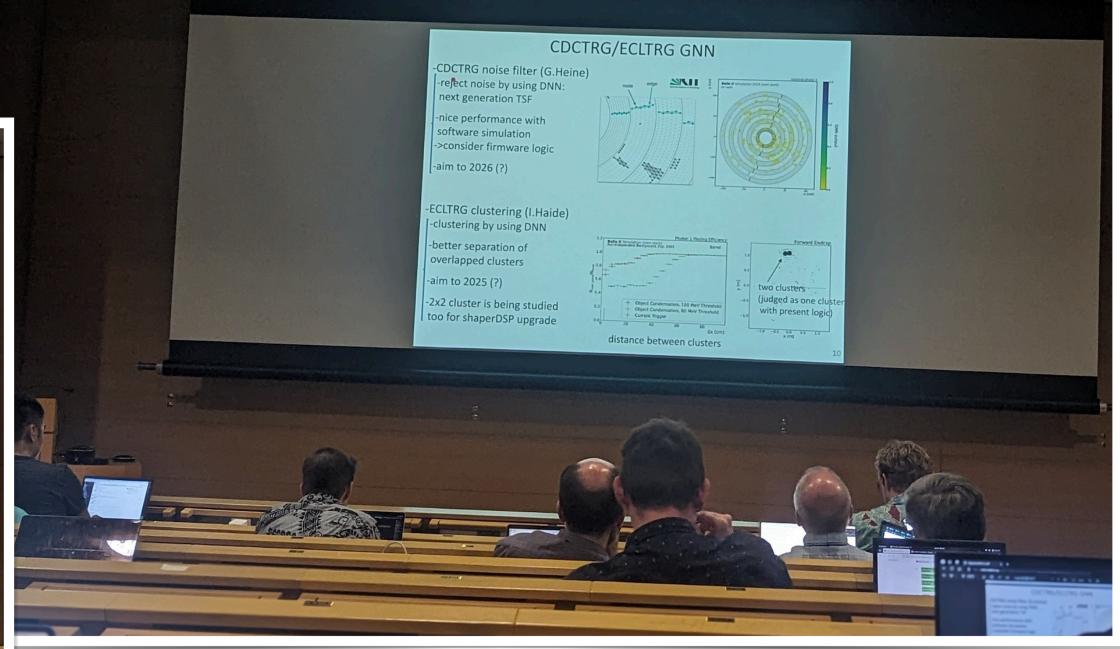
## Belle II Collaboration Week



Many ETP contributions featured last

week!

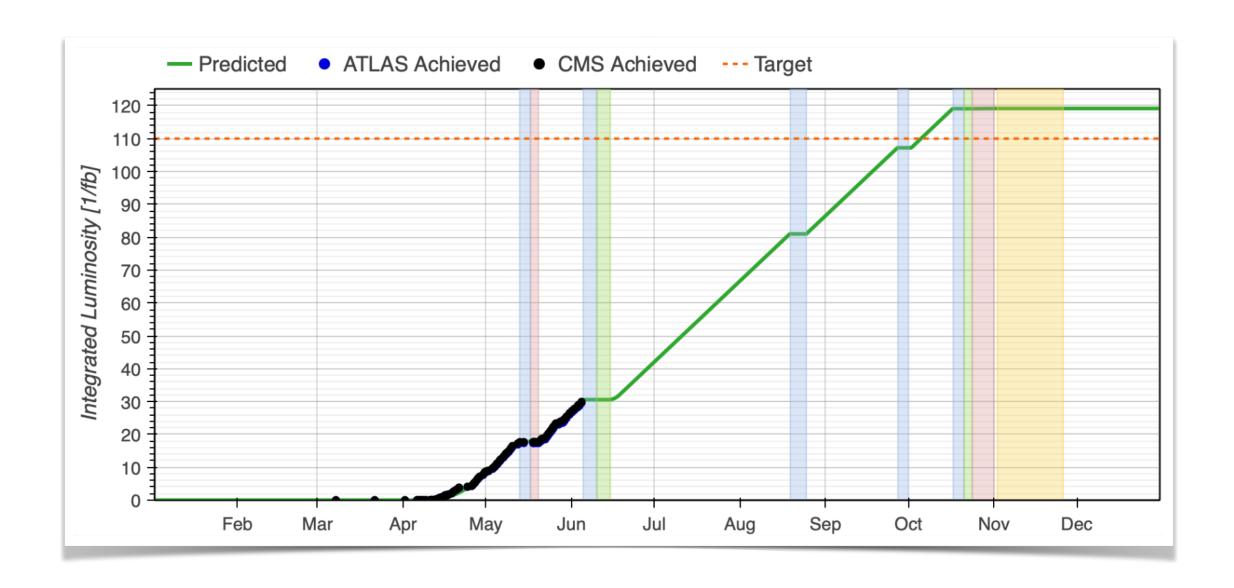




### News from LHC / CMS



- After a cat entering P5 without badging on Saturday, also a bird flew into the control room on Sunday and a mouse was spotted last night.
- LHC finishing machine developing and entering intensity ramp
- So far, 2024 according to plan w/o major problems



### Hardware news



- Gluing jigs produced by workshop (1021) and 3D printer (1754)
- Ready to be shipped world-wide



### ETP Events in 2024



- Clean room party 17.06.24
- Summer Party 04.07.24
  - Group foto!
- KIT Meisterschaft 13.07.24
- Summer Hike week of July 29, 2024
- Schloss Lichtspiele 09.08.24
- Christmas Party 06.12.24

## **Today's Meeting**



