

New Physics at Belle II

Introductory remarks

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KIT Center Elementary Particle and Astroparticle Physics (KCETA)



KIT has been founded in 2009 as a merger of the **University of Karlsruhe** and the **Research Center Karlsruhe**. It is both a university and a national research center.

You are at **Campus South**. The **KATRIN** tour on Wednesday will be at **Campus North**.

Particle physics:

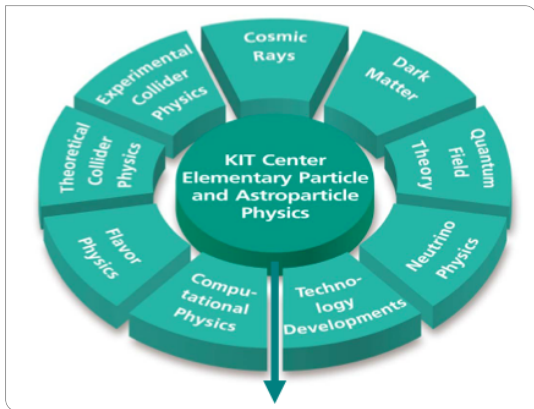
KIT Center for Particle and Astroparticle Physics (KCETA):

Experiment: AMS, AUGER, Belle, Belle II, CMS, Edelweiss, KATRIN

Theory: collider, flavour, precision, quantum field theory, astroparticle

KCETA staff: \sim 350

PhD students: 111
(incl. hardware engineers)



Doctoral school KSETA

Local Heroes

Heinrich Hertz:

electromagnetic waves,
 Nov 11, 1886
 energy \propto frequency in
 photoelectric effect, 1886

Herwig Schopper:

hadron calorimeter, (with
 Protvino group), 1967

Julius Wess:

supersymmetry (with
 Bruno Zumino), 1973



Workshop info

- Lunch:** see restaurant map. In the student canteen **Mensa** you can use cash payments in **line 6** and the **cafeteria**, otherwise you need a special debit card (team up with a local person)
- Venue:** You cannot enter this building after **7 p.m.** This is bldg. 30.23, **physics building**, seminar room **3/1**.
- Reception:** today after the last session in the same building, **room 11/14 (11th floor)**.
- Dinner:** Tuesday at **7:30 p.m.** in **Gastdozentenhaus "Heinrich Hertz"**, Engesserstrasse 3, just walk 250 meters towards the castle.

Map



KATRIN tour on Wednesday

- Gate pass:** For the gate pass for Campus North we need **a) your date** and **b) your place of birth by today!** If you have not done so, please give this information to Mrs. Schorn **now**.
- Transfer:** by **KIT shuttle bus** leaving at **2:30 p.m.** The bus stop is 300 meters down Engesserstrasse (walk opposite to the dinner route on Tuesday) near a student hang-out called **AKK**. Easiest: follow **Andreas Pargner**, who will go with you and guide you to **KATRIN**.
- Where:** If you miss the bus and take a taxi to **KIT Campus North:** **KATRIN** is in building no. 460.
- Leave:** Take the shuttle bus back (leaving on the full hour) or use public transportation directly to Karlsruhe train station or Frankfurt airport (see my email of Saturday).

Workshop mission

- a) Identify strategies to constrain models of new physics with future Belle II data and
- b) discuss how to use existing computer codes to fit data to new-physics parameters and to specify which further codes need to be developed.

The workshop is organised by the **new-physics working group** (no. 9) of the **“Belle II Theory Interface Platform”**. The results serve as an input to the **B2TIP workshop** in **Cracow, Poland, April 27-29, 2015**.

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