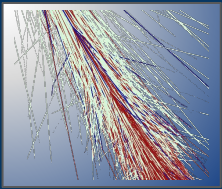


Welcome

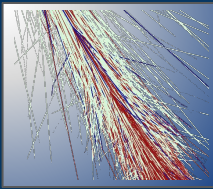
Ralf Ulrich

Organization



- KIT entry cards
- Coffee, and discussions
- Lunch
- Questions?

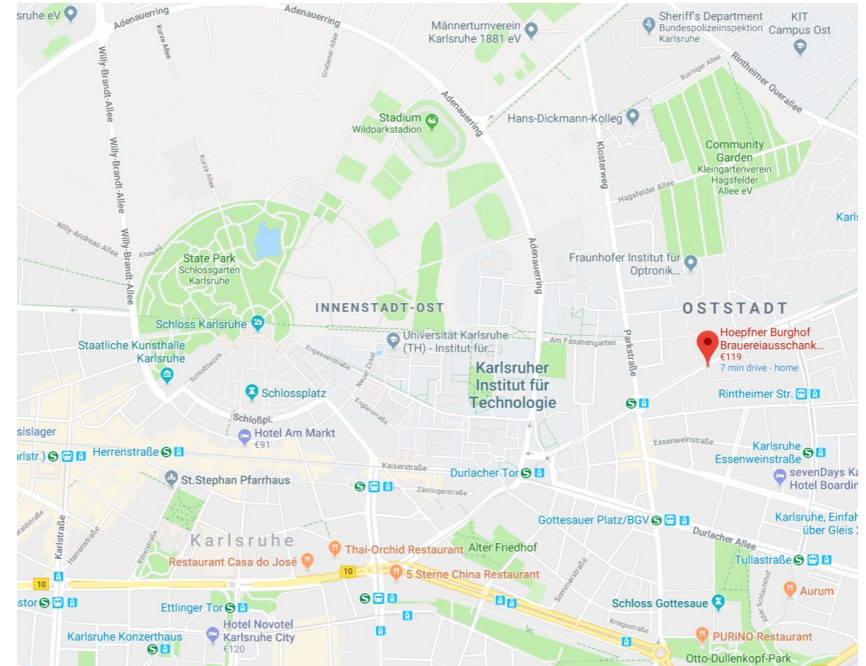
Dinner, today



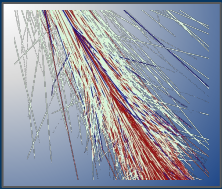
Biergarten Höpfner Burg



- Reservation at 19:30
- Who want to join?

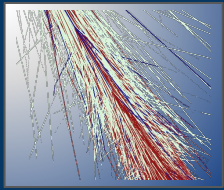


Presentations



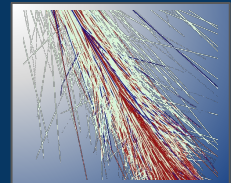
- Upload slides directly in indico → you need an indico account
- Or provide slide on USB stick to Maximilian or me.
- We collect all slides on indico page.
- We use splitter cable to share image at the same time on the beamer and via vidyo.
- You can use your own computer for the projection, or the one provided.
- We try to record talks via vidyo.


Purpose of workshop





1. To present you our plans and more concrete ideas.
2. To discuss with you your experience, opinions, and requirements.
3. To understand how we combine this into the most useful next-generation framework for simulating particle cascading processes in astroparticle physics.
4. Find out the best organizational/collaborative approach to tackle this project together.

Agenda: <https://indico.scc.kit.edu/event/426>



10:20	→10:40	Coffee	⌚ 20m	📍 Bldg. 425, Room 206	🔗
10:40	→10:50	Welcome	⌚ 10m	📍 Bldg. 425, Room 206	🔗
		Speaker: Organizers			
10:50	→11:10	CORSIKA	⌚ 20m	📍 Bldg. 425, Room 206	🔗
		Speaker: Dieter Heck			
11:10	→11:20	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
11:20	→11:50	Introduction to the upgrade project	⌚ 30m	📍 Bldg. 425, Room 206	🔗
		Speaker: Ralf Ulrich <small>(KIT)</small>			
		 ConsikaWorkshop2...			
11:50	→12:10	Discussion	⌚ 20m	📍 Bldg. 425, Room 206	🔗
12:10	→13:40	Lunch	⌚ 1h 30m	📍 Bldg. 425, Room 206	🔗
13:40	→14:05	CTA Simulations	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Gemot Maier			
14:05	→14:15	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
14:15	→14:40	Radio simulations	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Tim Hüege <small>(KIT)</small>			
14:40	→14:50	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
14:50	→15:20	Coffee	⌚ 30m	📍 Bldg. 425, Room 206	🔗
15:20	→15:45	Fast simulations	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Tanguy Pierog <small>(KIT)</small>			
15:45	→15:55	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
15:55	→16:20	Cherenkov photon simulation, CTA	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speakers: Johan Bregeon, Luisa Arrabito			
16:20	→16:30	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
16:30	→17:00	Coffee	⌚ 30m	📍 Bldg. 425, Room 206	🔗
17:00	→17:25	Constraints/Limitations of CORSIKA and possible solution, GPU accelerated computing of cherenkov radiation	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Dominik Baack			
17:25	→17:35	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
17:35	→18:00	POEMMA, EU50-SPB2	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Francesca Bisconti			
18:00	→18:10	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗

09:00	→09:25	Geometry and Transformations	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Darko Veberic <small>(IKP KIT)</small>			
09:25	→09:55	Coffee	⌚ 30m	📍 Bldg. 425, Room 206	🔗
09:55	→10:20	Introduction to existing work-concepts, particle ids, units	⌚ 25m	📍 Bldg. 425, Room 206	🔗
		Speaker: Maximilian Reininghaus <small>(KIT)</small>			
10:20	→10:40	Simulating penetrating atmospheric leptons in IceCube	⌚ 20m	📍 Bldg. 425, Room 206	🔗
		Speaker: Jakob van Santen			
10:40	→10:55	Discussion	⌚ 15m	📍 Bldg. 425, Room 206	🔗
11:00	→12:00	Seminar		📍 Bldg. 401, Room 411	🔗
		 Seminar			
		 seminars	⌚ 1h	📍 Bldg. 401, seminar room [KIT ...]	🔗
12:00	→13:30	Lunch	⌚ 1h 25m	📍 Bldg. 425, Room 206	🔗
13:30	→13:45	Modular Software Design in CRPropa 3	⌚ 15m	📍 Bldg. 425, Room 206	🔗
		Speaker: Tobias Winchen			
13:45	→13:55	Discussion	⌚ 10m	📍 Bldg. 425, Room 206	🔗
13:55	→14:10	Power user wish-list for Next-Gen CORSIKA	⌚ 15m	📍 Bldg. 425, Room 206	🔗
		Speaker: Hans Dembinski			
14:20	→14:50	Coffee	⌚ 30m	📍 Bldg. 425, Room 206	🔗
14:50	→15:20	Description of infrastructure and possible procedures	⌚ 30m	📍 Bldg. 425, Room 206	🔗
		Speaker: Ralf Ulrich <small>(KIT)</small>			
15:20	→16:00	Discussion on future collaboration	⌚ 40m	📍 Bldg. 425, Room 206	🔗

Note: Upcoming CORSIKA school at CERN

Very comprehensive programm,

Excellent speakers,

Registration open: NOW

LHC meets Cosmic Rays

Lectures

- Introduction to Cosmic Rays
- Extensive Air Showers
- Atmospheric Lepton Fluxes
- Air Shower Simulations
- Accelerator Data
- Hadron Interaction Models

Hands-on exercises with:
CORSIKA, CRMC, MCEq

Speakers

- Valentina Avati (CERN)
- Francesca Bellini (CERN)
- David Berge (Berlin)
- Lorenzo Cazon (LIP)
- Hans Dembinski (Heidelberg)
- David d'Enterria (CERN)
- Anatoli Fedynitch (Berlin)
- Stefan Gieseke (KIT)
- Menjo Hiroaki (Nagoya)
- Kumiko Kotera (Paris)
- Paolo Lipari (INFN, Roma)
- Sergey Ostapchenko (Frankfurt)
- Etienne Parizot (Paris)
- Tanguy Pierog (KIT)
- Felix Riehn (LIP)
- Torbjörn Sjöstrand (Lund)
- Michael Unger (KIT)
- Klaus Werner (Nantes)

Organization

- Anna Di Giacomo
- Ralph Engel
- Alfredo Ferrari
- Jörg Hörmann
- Tanguy Pierog
- Albert de Roeck
- Ralf Ulrich

Oct 28 – Nov 2
at CERN

