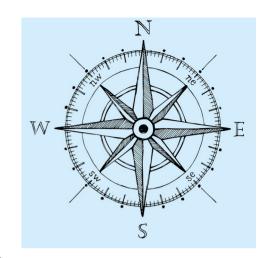


BTTB11

Hands-On Tutorials

* for in-person participants







Test-beam Reconstruction with Corryvreckan

F. Feindt, A. Simancas, G. Vignola

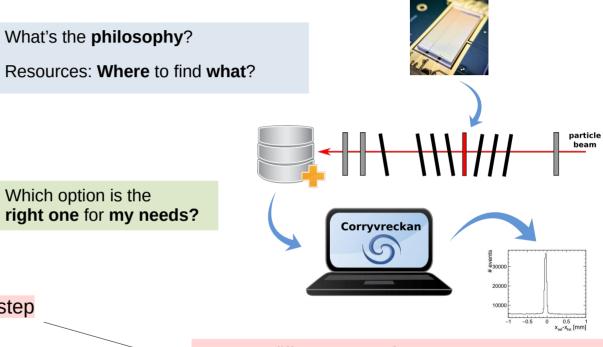
Content

- Introduction
 - What is Corryvreckan?
 - What's new since BTTB10?
- Which option is the right one for my needs?

What's the **philosophy**?

- Hands-on
 - installation options
 - setting up an analysis step-by-step

Focus can be adjusted according to **interests of participants!**



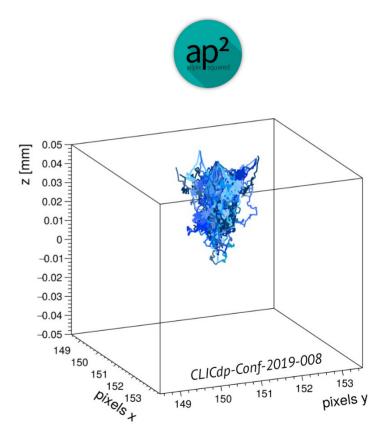
- many different example use-cases
- analyse SPS and DESY data
- focus on different event building schemes

Hands-On Tutorials | BTTB11 | 17.04.2023

Silicon Detector Monte-Carlo Simulations with Allpix Squared

- A beginner's guide to detector simulations: step-bystep walkthrough of simple and more sophisticated setups
 - Looking at what different modules are doing, and how to look at their outputs
 - Starting from simple sensor, and in the end including multiple sensors and importing electric fields from TCAD simulations
- An exercise on setup resolution optimisation will be presented
- Q&A: we are happy to answer any questions about the framework

H. Wennlöf, S. Ruiz Daza, M. Del Rio Viera, S. Lachnit, S. Spannagel, P. Schütze



L. Huth, A. Herkert

How to Test Beam? Making the most of your beam time

- Test beams are challenging and we need to efficiently use the available time
- In the Hands-on we will go through ...
 - The DESY II infrastructure
 - Soft-/Hardware interfaces
 - Integration possibilities
 - Operating the telescopes
 - If time allows for: optimising the geometry

Due to safety considerations only **10 people** per slot with mandatory **safety lecture**.

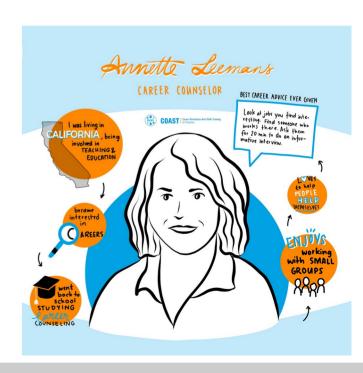
Registration mandatory! Info coming up ...





- Aims:
 - Create awareness on strategic career planning
 - Reflect on your own expertise and values
 - Use tools to be your own advocate
 - Know the power networking
- Methods:
 - individual and group activities, discussion and reflection
- Trainers: Friederike Eickhoff & Annette Leemans
- Maximum: 12 participants

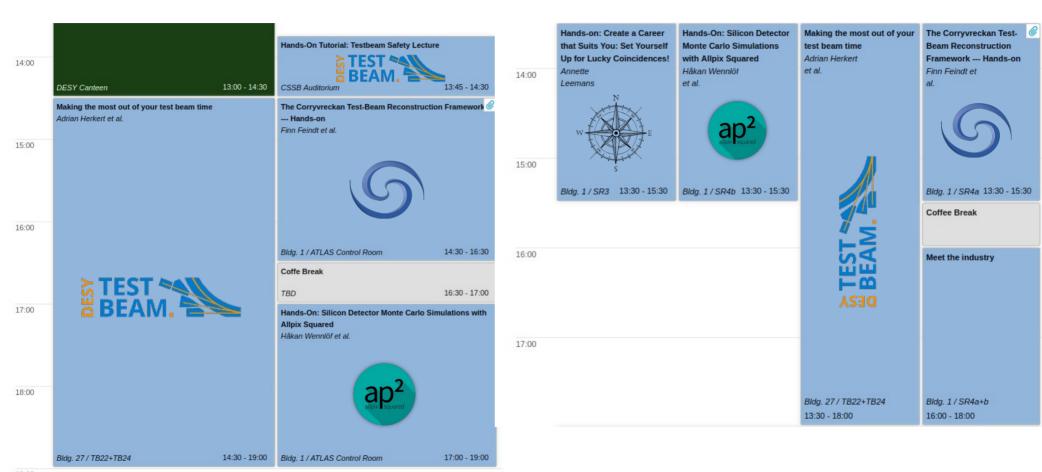
Create a Career that Suits You



Tuesday

Timetable

Thursday



Hands-On Tutorials | BTTB11 | 17.04.2023



- Recommendation:
 Virtual Machine for BTTB11 workshop
 - Comes with Corryvreckan, Allpix Squared, ROOT & Geant4
 - Download and install VirtualBox
 - Download virtual machine image before tutorial (> 5 GB)
 - Click for instructions on setting up the virtual machine
- Local installation possible (takes some time depending on satisfied dependencies), please install before tutorial
- Sourcing via CVMFS (via LXPLUS/NAF/...) possible
- Additional preparation for Corryvreckan (download of sample data, not required for VM): instructions

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Includes the sample data for *Corryvreckan* tutorial!

Preparation: BEAM.



Visit the DESY II Test Beam safety lecture:

Tuesday, 13:45, CSSB Auditorium

Sign Up!

Please sign up for the tutorials via the workshop Indico!

Do so until Monday 4 pm (Test Beam) or before the tutorials (others).

We wish you an interesting & productive time at the **BTTB11**!

