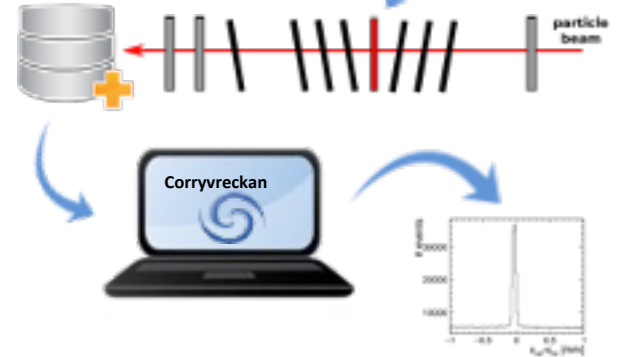
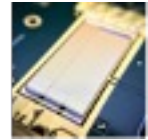


BTTB12

Hands-On Tutorials*

* for in-person participants



Test-beam Reconstruction with Corryvreckan

F. Feindt, N. Davis,
S. Ruiz Daza

Content

• Introduction

- What is Corryvreckan?
- What's new since BTTB11?

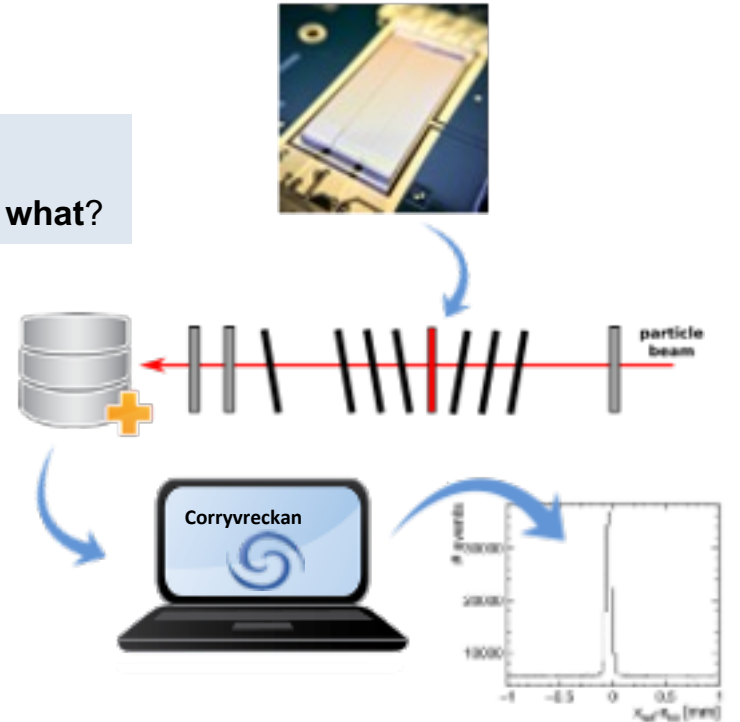
• Hands-on

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

Focus can be adjusted according to interests of participants!

- What's the **philosophy**?
- Resources: **Where** to find **what**?

- Which option is the **right one** for my needs?

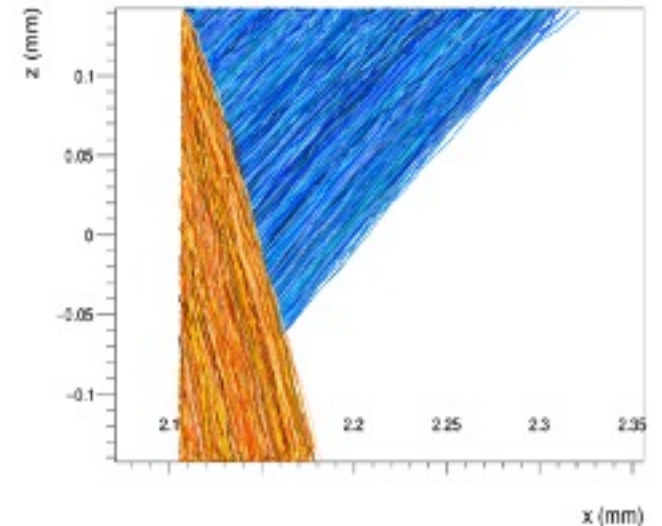


- many different **example use-cases**
- analyse **SPS** and **DESY** data
- focus on different **event building** schemes

Silicon Detector Monte Carlo Simulations using Allpix Squared

H. Wennl6f, M. Del Rio Viera,
S. Lachnit, D. Rastorguev

- A beginner's guide to detector simulations: **step-by-step 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



Timetable

- **Tuesday** afternoon, two slots with both tutorials each capacity of 50 participants
- Allpix Squared: **room 5237 (5th floor)**
- Corryvreckan: **room 5328 (5th floor)**
- **The rooms are in another building**
- **“James Clerk Maxwell Building (JCMB)”**



Tuesday

13:00		Lunch	
Edinburgh		12:50 - 13:50	
14:00	Hands-On: Silicon Detector Monte Carlo Simulations with Allpix Squared Håkan Wernick	The Corryvreckan Test-Beam Reconstruction Framework — Hands-on Finn Feindt et al.	
Edinburgh		Edinburgh	
13:50 - 15:00		13:50 - 15:00	
15:00		Coffee break	
Edinburgh		15:50 - 16:20	
17:00	The Corryvreckan Test-Beam Reconstruction Framework — Hands-on Finn Feindt et al.	Hands-On: Silicon Detector Monte Carlo Simulations with Allpix Squared Håkan Wernick	
Edinburgh		Edinburgh	
16:20 - 16:50		16:20 - 16:50	
18:00			
Edinburgh		Edinburgh	
16:20 - 16:50		16:20 - 16:50	

Preparation: &

Virtual Machine for BTTB11 workshop (**recommended**)

Includes the sample data for *Corryvreckan* tutorial!

- Comes with *Corryvreckan*, *Allpix Squared*, *ROOT* & *Geant4*
- Download and install [VirtualBox](#)
- Download [virtual machine image](#) **before** the tutorial (large file!)
- [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](#)

Sign Up!

Please sign up for the tutorials
via the [workshop Indico](#)
before Tuesday 16th, 12:00

We wish you an interesting & productive time
at the **BTTB12!**

