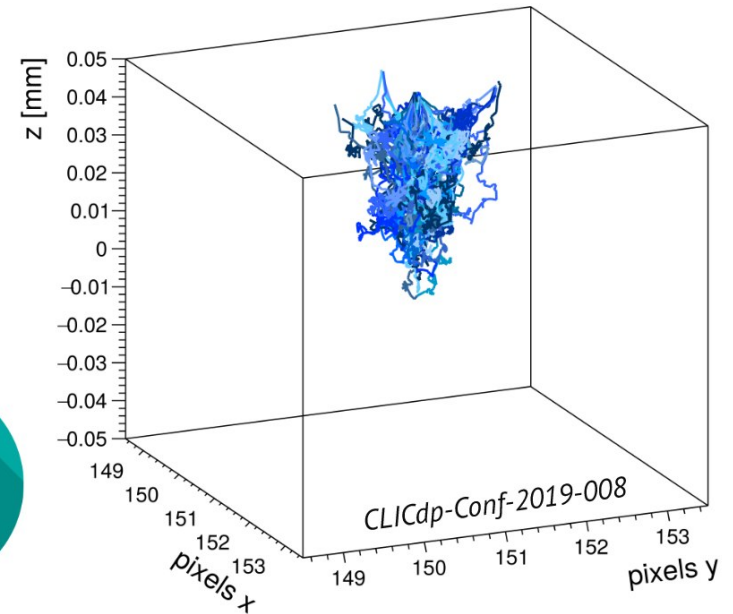
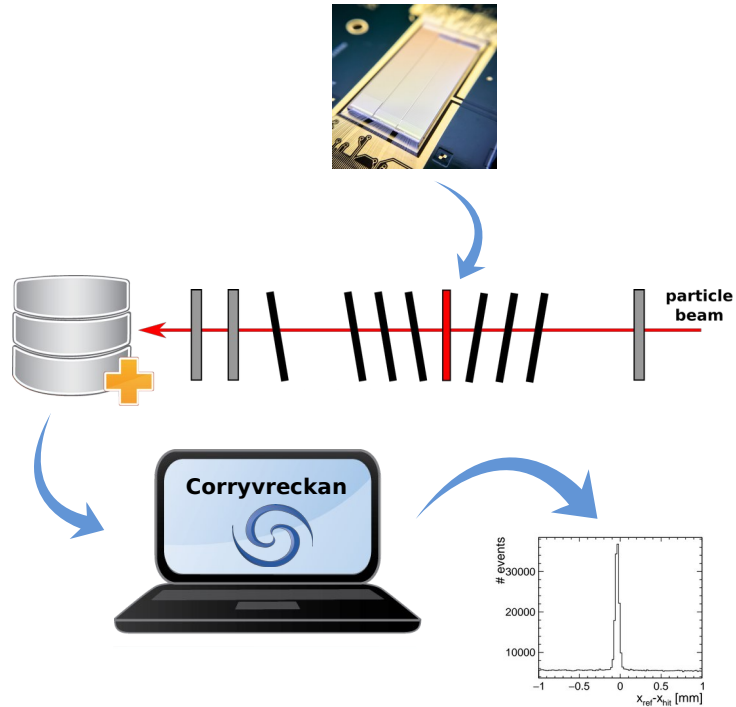


BTTB9

Hands-On Tutorials



Test-beam Reconstruction with Corryvreckan

Content

- **Introduction**

- What is Corryvreckan?
- What's new since BTTB8?

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

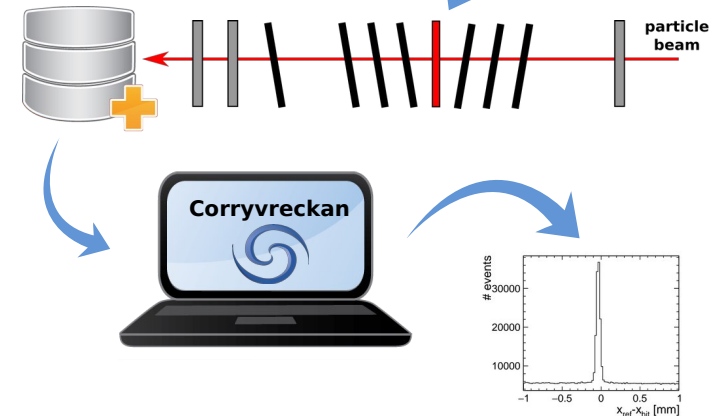
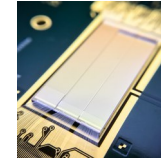
- **Hands-on**

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

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

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

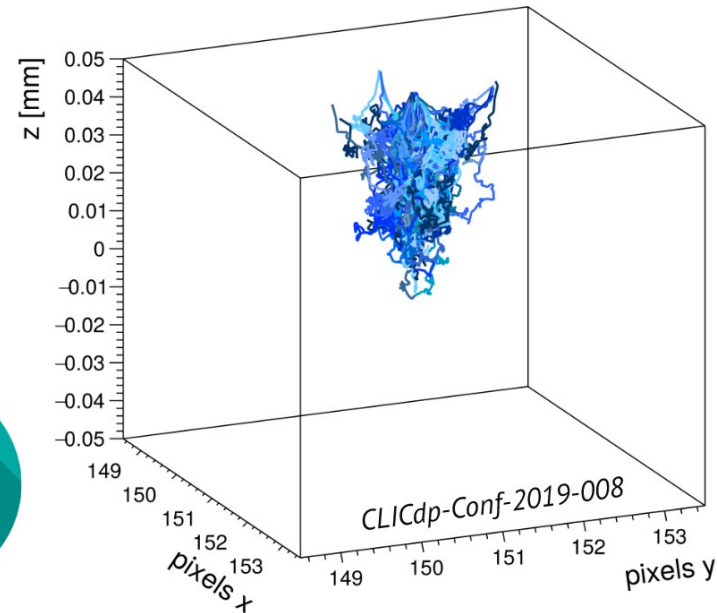


Silicon Detector Monte-Carlo Simulations with Allpix Squared

Beginners

Content

- Installation options
- A beginner's guide to detector simulation: Step-by-step guidance through simple and more complex simulations
- How to customise your simulation ...
- How to start developing ...
- Q&A: we're here to answer your questions!



Silicon Detector Monte-Carlo Simulations with Allpix Squared

Advanced




Content

- Default: *None*
- Use the sign-up survey to ask questions on Allpix Squared
 - We will try to prepare good and (hopefully) vivid answers
- Ask your questions during the session and discuss with us
- Q&A: we're here to answer your questions!



Timetable

- Large feedback at sign-up survey
- **Same schedule for Tuesday & Wednesday**
- 9:30 – 12:00
 - Corryvreckan
 - Allpix Squared *Beginners*
- 12:00 – 13:00
 - Allpix Squared *Advanced*

10:00	Hands-On: Silicon Detector Monte-Carlo Simulations with Allpix Squared - Beginners <i>Simon Spannagel et al.</i>	Hands-on: Test-beam Reconstruction with Corryvreckan <i>Jens Kroeger</i>
11:00	 → Zoom Link	 → Zoom Link
12:00	Lunch Break	Hands-On: Everything you would like to know about Allpix Squared - Advanced <i>Simon Spannagel et al.</i>
13:00	Lecture: Interconnects and Assembly Technologies for Hybrid Pixel Detectors	 → Zoom Link
	<i>Lecce, Italy</i> 09:30 - 12:00	<i>Lecce, Italy</i> 09:30 - 12:00
	<i>Lecce, Italy</i> 12:00 - 13:00	<i>Lecce, Italy</i> 12:00 - 13:00
		<i>Thomas Fritzsch</i>

Preparation: &

- **Recommendation:**

Virtual Machine for BTTB9 workshops

Includes the sample data
for *Corryvreckan* tutorial!

- Comes with *Corryvreckan*, *Allpix Squared*, *ROOT* & *Geant4*
- Download and install [VirtualBox](#)
- Download [virtual machine image](#) **before** tutorial (> 11 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):
<https://indico.cern.ch/event/945675/contributions/4184960/>



Sign Up!

Survey open until today, 4 pm

<https://indico.cern.ch/event/945675/surveys/1902>

We wish you an interesting & productive time
at the **BTTB9** workshop!