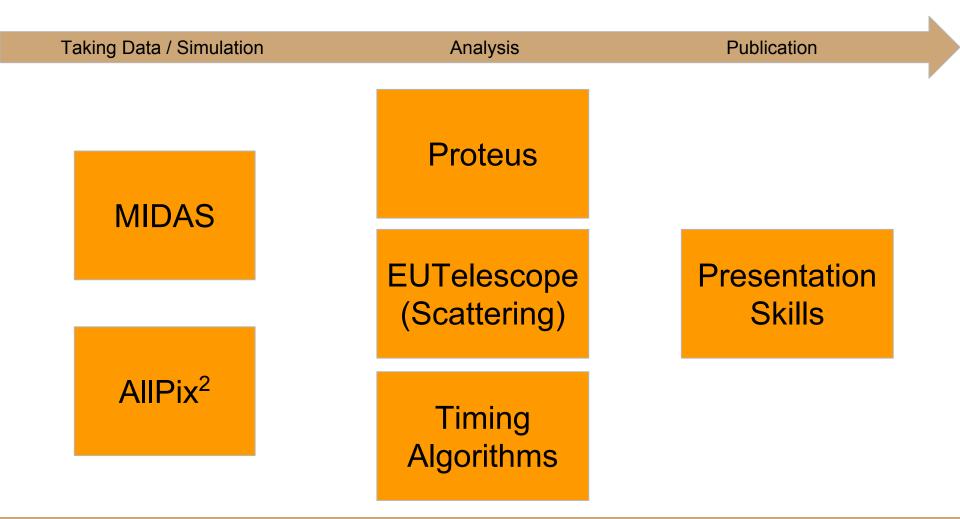
### Overview and Organisation of the Hands-On Sessions

6 Tutorials at BTTB6 on Thursday afternoon

### Tools for your test beam and you



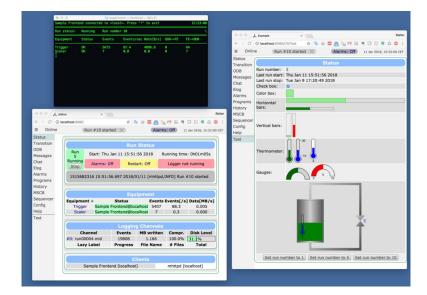
# The **MIDAS** data acquisition system for Test Beams by Stefan Ritt

### Contents

- short demonstration of **installation**
- basic overview of the components and concepts
- application to test beams
- event-based data acquisition and slow control
- data visualization and web-based user interface

### **Possible preparation**

 MIDAS documentation: https://midas.triumf.ca/MidasWiki/inde x.php/Midas\_documentation



# **Allpix<sup>2</sup>** Simulation Framework by Simon Spannagel

### Contents

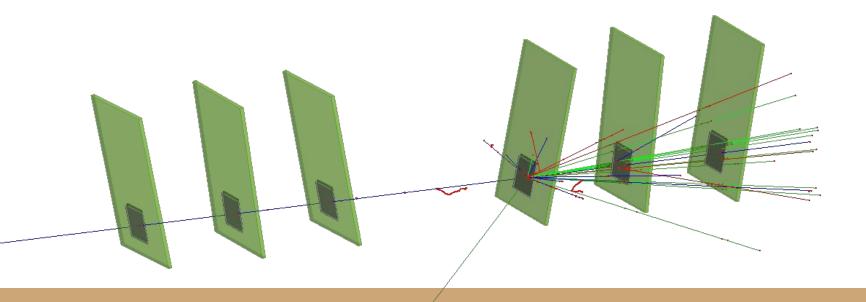
- introduction to the Allpix Squared simulation framework
- walk-through the examples
- set up your own telescope-plus-DUT simulation

#### **Recommended Preparation**

 Installation of the latest version (v1.1.0) on your computer or remote machine:

https://cern.ch/allpix-squared

• CVMFS version available



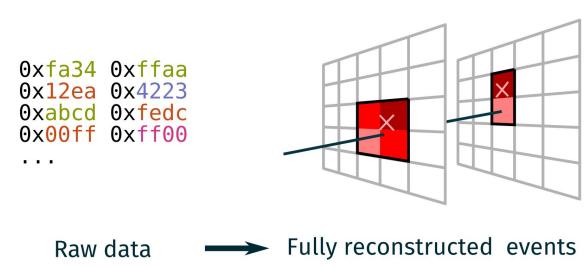
# The **Proteus** Reconstruction Software by Moritz Klein

#### Contents

- analysis flow from raw hit data to reconstructed tracks
- basic efficiency measurements using an example dataset

### **Recommended preparation**

- Installation on local computer or on CERN lxplus machines
- Instructions: https://gitlab.cern.ch/unige-fei4tel/proteus
- Requirements ROOT and a C++11 compatible compiler



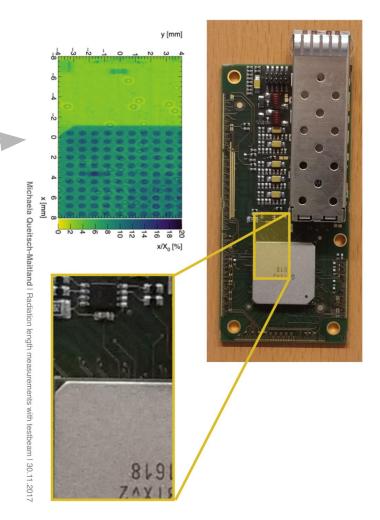
# Scattering Images using **EUTelescope** by Michaela Queitsch-Maitland

### Contents

- brief overview on EUTelescope
- analysis flow from raw hit data to a scattering image
- using a "noDUT" dataset

### **Recommended preparation**

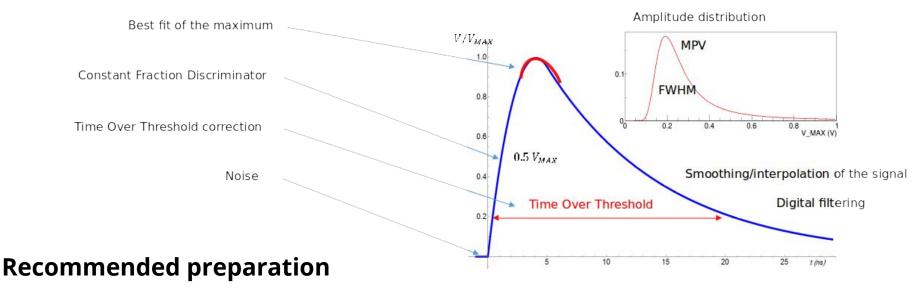
 Reference: http://eutelescope.web.cern.ch/



## **Timing**: Measurement of time of arrival by Nicola Minafra (nicola@cern.ch)

#### Contents

- computing the arrival time using sampled signals
- comparison between different algorithms



- laptop, C++ knowledge
- (any) installation of ROOT

### Making the most of your 10 minutes of fame **Presentations Skills** by David Barney

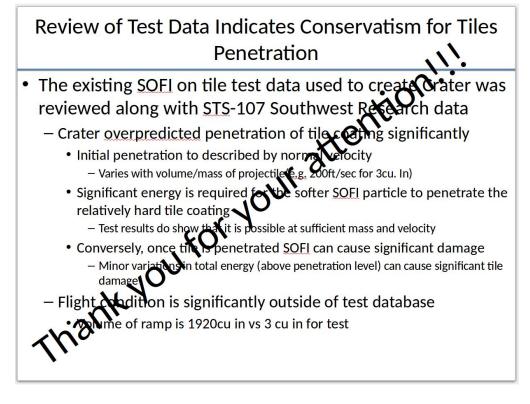
### Contents

- identifying some simple but effective methods of improving presentations and posters
- hands-on activities to reinforce concepts

### Recommended (mental) preparation

- your own laptops
- be prepared to share your work with fellow participants

### a different example...



### You can attend up to TWO tutorials

13:00	Hands-On: Scatterin EUTelescope	g Images using	Hands-On: Making the <i>l</i> most of your 10 minutes of fame	Dr. David BARNEY	Hands-On: The Proteus Reconstruction Softw	Dr. Moritz KIEHN
14:00						
	ETH HG E 33.3, Zuric	h, Switzerland	ETH HG E 33.1, Zurich, Switzerland		ETH HG E 33.5, Zurich, Switzerland	
	Coffee break					
15:00	<i>ETH HG E 1.2, Zurich, Switzerland</i> 14:45 - 15:15					
	Hands-On: Measurement of time of arrival	Mr. Nicola MINAFRA	Hands-On: The MIDAS data acquisition system for Test Beams	Stefan RITT  📄	Hands-On: The Allpix Simulation Framewor	Squared k
16:00						
	ETH HG E 33.5	15:15 - 17:00	ETH HG E 33.3	15:15 - 17:00	ETH HG E 33.1	15:15 - 17:00