

3rd International Summer School on INtelligent Signal Processing for FrontIEr Research and Industry

Monday 14 September 2015 - Friday 25 September 2015

**Hamburg
Programme**

Table of contents

Saturday 19 September 2015	1
----------------------------------	---

Saturday 19 September 2015

Intelligent Silicon Trackers: Pixels and large area Si Trackers - Auditorium III 2nd Floor (09:00-13:15)

The application of Intelligent Pixel-based devices is largely increasing both in research and applied life. They greatly benefit of the advances in the semi-conductor technology and in advanced CMOS technology as introduced on Day 2. Combining these technological advances on both the sensors and their associated FEE (as shown with some detailed examples), the pixels are becoming more and more intelligent devices with an increasing role for challenging applications in Astrophysics, Particle Physics as well as Novel Medical Imaging.

time	title	presenter
09:00	Large tracking detectors for the HL-LHC with novel trigger systems - ATLAS case	GREGOR, Ingrid
10:30	Coffee	
10:50	NEW FRONT-END ASIC DESIGN(s) for next generation of pixel based devices : How to handle with High granularity, high rate & high performances in the HEP case (HL-LHC)	GARCIA-SCIVERES, Maurice
12:05	Break	
12:15	TECHNOLOGICAL CHALLENGES for REALTIME PROCESSING of PIXEL INFORMATION	GARCIA-SCIVERES, Maurice