

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

Monday 14 September 2015 - Friday 25 September 2015

**Hamburg
Programme**

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Intelligent Front-End Processing on Instruments - Auditorium III 2nd Floor (09:00-13:00)

Intelligent calorimeters are the first application that will illustrate what was discussed in the lectures given on September 16. They review i) the high processing capability included in the Front-End ASIC sitting on the detectors; ii) how the new technology allows confronting very difficult environmental conditions (non-accessibility, high radiation levels, extreme reliability requirements (high fault tolerance) etc.) ; iii) real time sophisticated filtering and triggering architectures already available or prepared on the front-end electronics and readout system on the detectors.

The second application concerns the instruments in Astrophysics filled with Noble gases for Neutrino or Direct Matter searches.

time	title	presenter
09:00	New Calorimetry techniques and Intelligent Signal Processing: FRONT-END ELECTRONICS in IMAGING CALORIMETRY	DE LA TAILLE, Christophe
11:00	Coffee	
11:30	Signal Processing on Detectors filled with Noble Gas: The Direct search for Dark Matter and Long Baseline Neutrino experiments	SCHUMANN, Marc