

Workshop on the Future of Silicon Detector Technologies
Future Technologies for Upgrading Radiation and Particle Detection Equipment
Future in Detector Module Assembly
New Technology and Sensor Approaches

3rd of December

Registration & Get Together	08:30	09:00	all	
Opening & Introduction	09:00	09:15	Prof. Th. Ortlepp, CiS	Potential of the Location Erfurt Science and Industrial Park
Greetings	09:15	09:20	Volkmar Bauer	Impulsregion Erfurt - Weimar - Jena
Invited talk / Key note	09:20	09:50	Dr. H. Pernegger, CERN	Big Science at CERN
1st session:	09:50	11:10	Chairman Prof. Th. Ortlepp	
	09:50	10:15	Dr. T. Wittig, CiS	New concepts for Silicon radiation and particle detectors: thinning, 3D and bias grid
	10:15	10:40	Ch. Berner, TU München	TREX: Delta-E Detektoren
	10:40	11:10	A. Velyka, DESY	CMS-Detektorkonzept ELAD

Coffee break

2nd session	11:30	12:50	Chairman Prof. Th. Ortlepp	
	11:30	11:50	I. Panasenko, Uni Tübingen	CBM Detektorqualifikation
	11:50	12:20	Prof. Th. Stöhlker, Helmholtz-Institut Jena, GSi	X-Ray Detektoren
	12:20	12:50	Dr. G. Casini, INFN Sezione di Firenze	From silicon wafers to the nuclide chart: five years of our partnership CIS-FAZIA

Lunch break

3rd session	14:00	15:30	Chairman Dr. A. Lawerenz	
	14:00	14:30	Prof. N. Yoshikawa, Yokohama National University, Japan	High-speed and Low-power signal processing using superconducting circuits
	14:30	15:00	Prof. A. Fujimaki, Nagoja Universität	Quantum Engineering
	15:00	15:30	Caterina Ciampi, INFN - Sezione di Firenze	Improvement in the radiation-hardness of semiconductor detectors. In that respect, silicon carbide (SiC) detectors

Coffee break



FuTuRe II

Time Table (preliminary)



4 th Session:	16:00	17:00	Chairman Dr. A. Lawrenz	
	16:00	16:20	R. Röder, CiS	Overview CiS detector activities and future plans
	16:20	16:40	Dr. R. Täschner, CiS	Innovative technology modules for sensor processing
	16:40	17:00	Dr. S. Nieland, CiS	Future Trends at CiS for Assembly and Packaging - Challenges for silicon detectors

**Workshop dinner
at 7:30 p.m.**

**Gästehaus der Stadt Erfurt, Richard Breslau Straße 12
Straßenbahn Linie 6 Richtung Steigerstraße**



Workshop on the Future of Silicon Detector Technologies
 Future Technologies for Upgrading Radiation and Particle Detection Equipment
 Future in Detector Module Assembly
 New Technology and Sensor Approaches

4th of December

5 th Session:	09:00	10:00	Chairman Prof. Th. Ortlepp
	09:00	09:30	Dr. G. Kittler, X-FAB Mixed Signal Foundry
			Potential and Future Trends in Silicon Sensor Technology at X-FAB CMOS pixel sensor
	09:30	10:00	N.N. IMMS Erfurt
			ASIC and sensor design at IMMS

Coffee break

6th Session:

10:15	11:50	Chairman Dr. A. Lawerenz
10:15	10:30	Prof. R. Gernhäuser, Department of Physics Technical University Munich
		High resolution spectroscopy of low energy ions in NDP
10:35	11:00	Dr. Ch. Möller, CiS
		Detectors for quantum optics
11:00	11:25	Dr. K. Lauer, CiS
		Defect engineering and -characterization in silicon
11:25	11:50	M. Bähr, CiS
		Magnetic field sensing using NV centers in diamond

Lunch break

After Lunch - Brainstorming 13:00 14:30 **Open discussion:**
 Requirements and technology approaches
 Project ideas

Prof. Th. Ortlepp

Closing remarks

The daily participation fee is 100 €.
 For participation on both days the fee is 200 €.

REGISTRATION LINK

https://www.cismst.org/registration-future2/?no_cache=1

