

Instrumentation at the Detector Laboratory (SEFO &HIP), Helsinki

- Clean room, class 100 and class 1000
- Ultrasonic automatic wedge bonder (Kulicke-Soffa) with video monitoring
- Manual probe station
- LCR-meter (HP 4284A)
- Computer controlled measurement system for static detector analysis
- Precision detector alignment system for mechanical assembly of strip detectors, accuracy 5 μm
- Printed circuit and electronics design tools
- Electronics design programs
- Visual scanning microscope
- Gas chromatograph with TCD, FID detectors, integrator and cryotrap sampling unit
- Gas chromatograph with mass spectrometer (HP G1800B)
- Vacuum gauge system (several gauges)
- X-ray devices
- Several NIM and VME crates with many data acquisition modules
- Automatic four-point resistivity meter station with Picoammeter and Electrometer
- PC-controllable gas mixer unit
- MALDI-TOF mass spectrometer