WP11: microelectronics





WP11: participants and budget (INFN)



WP11: Microelectronics

Work Package number	11	11 Lead beneficiaries			CNRS, INFN			
Work Package title	Microelectronics							
Participant number	8	10	12	16	17	22	28	
Short name of participant	CNRS	WEEROC	DESY	UHEI	UBONN	INFN	AGH	
Person months per participant:	63	8 (16)	7 (14.5)	7.5 (18.5)	8 (16)	44 (77)	35	
Start month - End month	M1 – M48							

Design sites at INFN: BA, BO, CA, MI, PI, PV, TO

WP budget 810 k



WP11 tasks



- Exploring the 28 nm CMOS technology:
 - radiation qualification
 - building blocks developments
 - Front-End ASIC for pixel detectors
- ASICs for others WP: 130 nm/65 nm
 - Cryogenic CMOS
 - ASICs for timing, gas detectors and calorimetry applications



WP11 deliverables



Deliverables related to WP11					
D11.1: MPW 28 nm The deliverable is a multi-project wafer fabrication with the different test ASICs in CMOS 28 nm (task 11.2)	22				
D11.2: MPW 65/130 nm The deliverable is a multi-project wafer fabrication with ASICs in CMOS 65 and/or 130 nm that can be used to read out detectors from the other WPs and in particular WP8 (task 11.3)	23				
D11.3: Measurement reports Each of the ASIC fabricated in the two previous deliverables will have its design and performance documented in a report (task 11.2, task 11.3)					

Basically: 2 years of design + 2 years for characterization/user experience



WP11 considerations/first steps (INFN



- Budget: < 1 CSN5 call for the full collaboration</p>
- INFN budget: CSN5 standard R&D
- Synergy with other running projects
- Preliminary INFN design and user meeting

