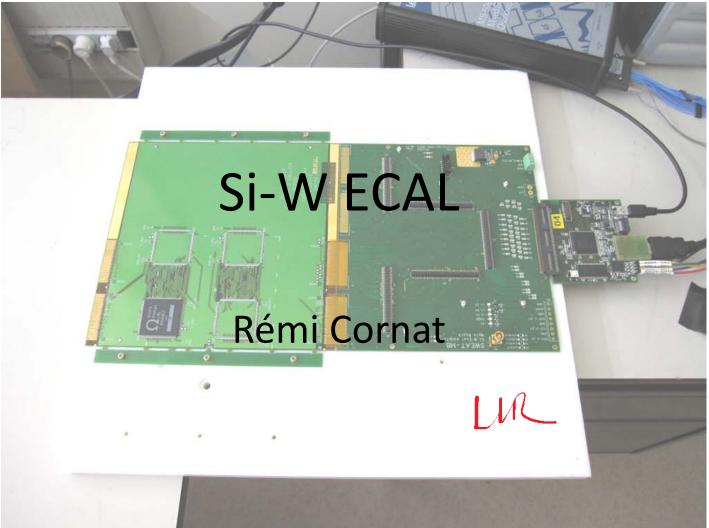




In2p3





Prospects for a future ASU

- "autonomous" unit
 - Including FFC & HV thanks to flex rigid technology
 - May include thermal drain thanks to SMI technology (substrat metallique isolé), limided to 2 layers of routing

- Optimized layout of edge connectors
 - Large pins for power supply (>10 amps !)
 - Only 2 connectors, one for each side
- 2 partitions for power (2 x 5 Amps)



• Mechanics for DIF and cables

- Power
 - Test of reliability (interconnects)
 - Test of power scheme (will start soon at LLR)
 - Two ways
 - PSU cap reg cap
 - PSU reg huge cap

```
With regulator 8 V –3 V : U=q/C, dU= didt/C
dU= 4 V, di=128*1 mA, dt=9 ms : C = 300 uF
```

```
Direct powering : U=q/C, dU= didt/C
dU= 100 mV, di=128*1 mA, dt=9 ms : C = 12 mF
c
```

apa grande capacité 10 mF: BZ05 case : 20mm x 15 mm x 6 mm