FEB proposal. Next Iteration 30/01/2024

What we want

PSD

Sector/Plane	bars	SiPM	BETA	FEB boards	LoZ Master boards	HiZ Master boards
ТОР	324	2592	162	13.5	1 (or 2)	1 (or 2)
LAT	180	1440	90	7.5	1	1
Total [TOP+4*LAT]	1044	8352	522	43.5	5 (or 6)	5 (or 6)

To decide at the moment of design master:

- One master for high and low or one master for high, one for low

- Data through master or individual FEB



What we have. TestBeam 2023



FEB proposal



MASTER (Zynq adaptor)

Summary

- 12 Beta controlled (6 High Z + 6 Low Z)
- 192 channels: 48 SiPM boards, 24 High Z bars, 24 Low Z bars
- FEB schematic started
 - Almost finished (expected next week).
 - Integrated electronics for bar LED pulse generation
 - Integrate I2C distribution for Beta and all telemetry peripherals
 - HV not integrated. Distributed from Master
- Physical dimension to be clarified before start routing.
- Master will be simulated with ZYNQ board with adaptor.
- For May could be ready. If not, we will use actual version

Backup Slides

Backup slide. Future Scenario

