APFEL Development Status and Time Schedule

Holger Flemming
GSI Experiment Electronics / ASIC Design

Latest Submission

- ASIC design of 3rd iteration of APFEL finished
- First candidate for a final design
- Probably no further MPW runs until mass production
- Until end of january 8 requests for APFEL ASICs

Insitute	Project	Number of ASICs
Uni Bochum	Proto 192	50
Uni Mainz	Backward Endcap	50
Uppsala		25
KVI	PCB Prototypes	20
Basel		3
Warsaw	Low Energy Measurements	4
GSI	ASIC Development	20
Uni München	Electroni Tests	2
Summ		174

Latest Submission

- Deadline for ASIC submission was on Feb. 8th
- 200 pieces have been ordered
 - so 26 pieces left, but we have no information about yield
- We expect silicon back begining of may
- We are talking about untested and naked pieces of silicon
 - Test PCBs
 - Bonding

Next Steps

- Test and speciffication of the APFEL ASIC
- If there are any critical bugs: We have to corrent these bugs in a forth iteration
- If there are no critical bugs: We need a Design readyness review
- After review: engineering run
 - production of the complete mask set for mass production
 - production of 6 wafers, 2 wafers are assured to be in process specifications
 - → 5000 pieces of APFEL
- Setup of wafer test
- Mass production

Schedule PreAmplifier APFEL

