



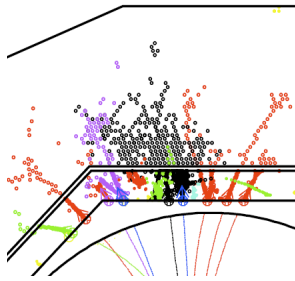
Discussion with concepts

Felix Sefkow

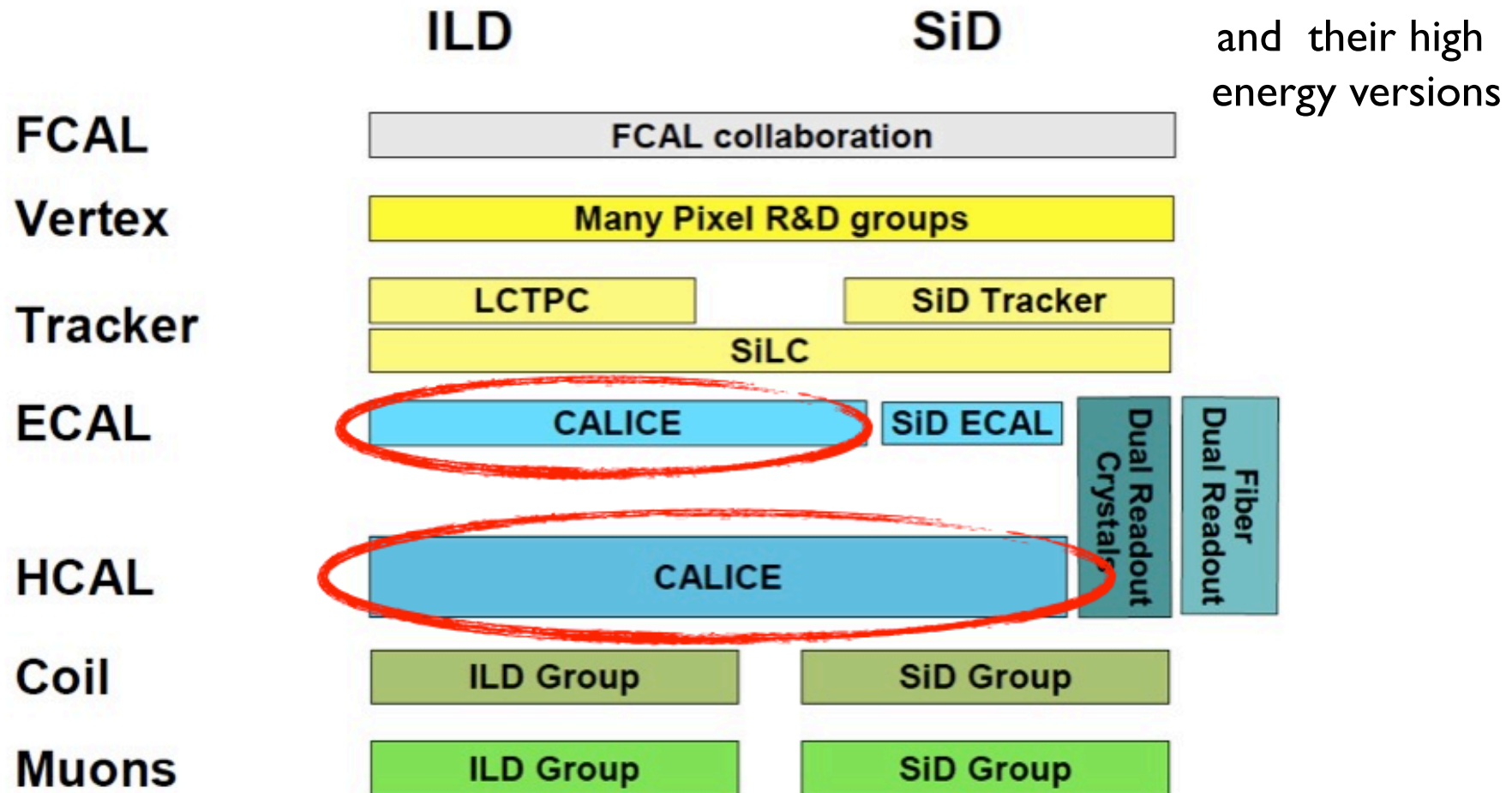


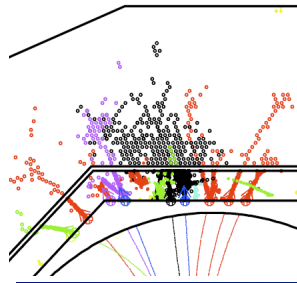
CALICE Collaboration Meeting
Arlington, TX, March 10-12, 2010





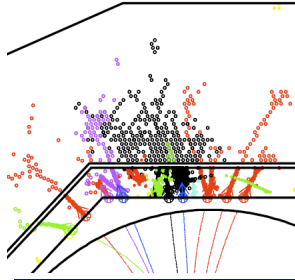
The Matrix





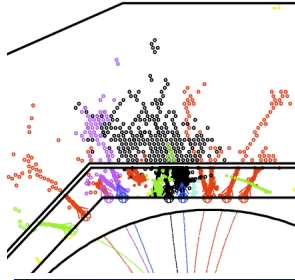
CALICE and concepts

- To avoid duplication, try a reasonable separation between R&D which is not concept-specific, and genuine concept issues
- Example: calibration study for IDAG
 - Stability, methods, transportation, test beam verification: **CALICE**
 - Lumi required, impact of imperfections on performance: **ILD**
- R&D issues:
 - Operational issue: dead channels, noise, stability
 - Performance validation with test beam, detailed simulation
 - Scalable design, power management, internal support, service and signal distribution, interfaces
- Concept issues
 - Detector integration, materials, support, services
 - Jet and physics performance



Coordnation

- Above all needed in software and detector integration
- Software: refine siumulations to become more realistic, following test beam validation
- Needs to be folded into schedule of mass production for performance, background and physics studies
- Needs to be coordinated with engineering and integration, include dead spaces, services etc
- Integration: engineering of supports and cables
- Agree on no-go zones, power management
- Keep two-way contact alive



Procedure and time-line

- Two stage procedure
- CALICE proposes candidate technologies
 - Solutions and **open issues**: "readiness of R&D"
- Involve existing review mechanisms, internal and external
 - TB and PRC reviews, spring 11 and 12
 - Do not duplicate in concepts
- Concepts must guide the R&D, CALICE must plan and remain flexible
- Concepts evaluate suitability of technologies
 - Integration and overall performance
- Final decision on "baseline maturity" and alternatives