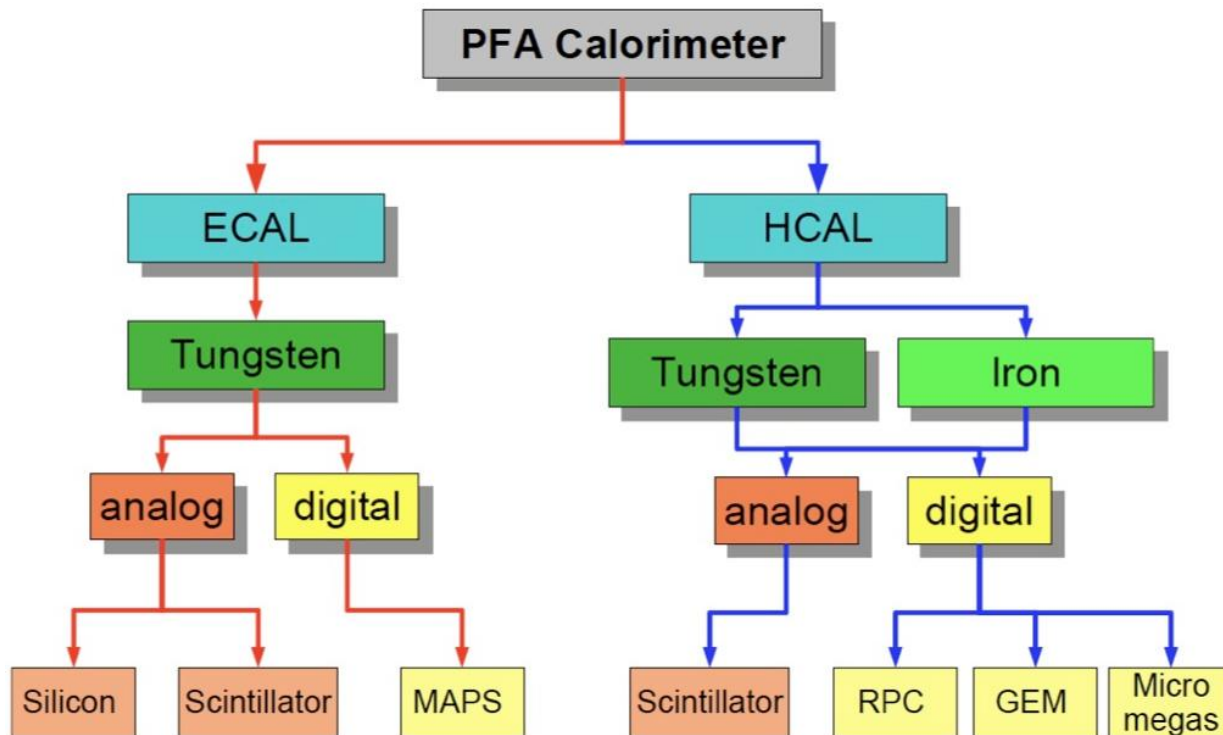




Relations with concept groups



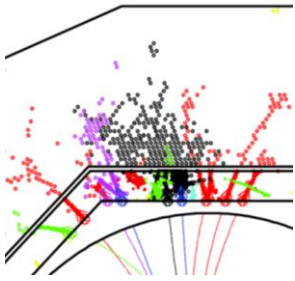
Felix Sefkow



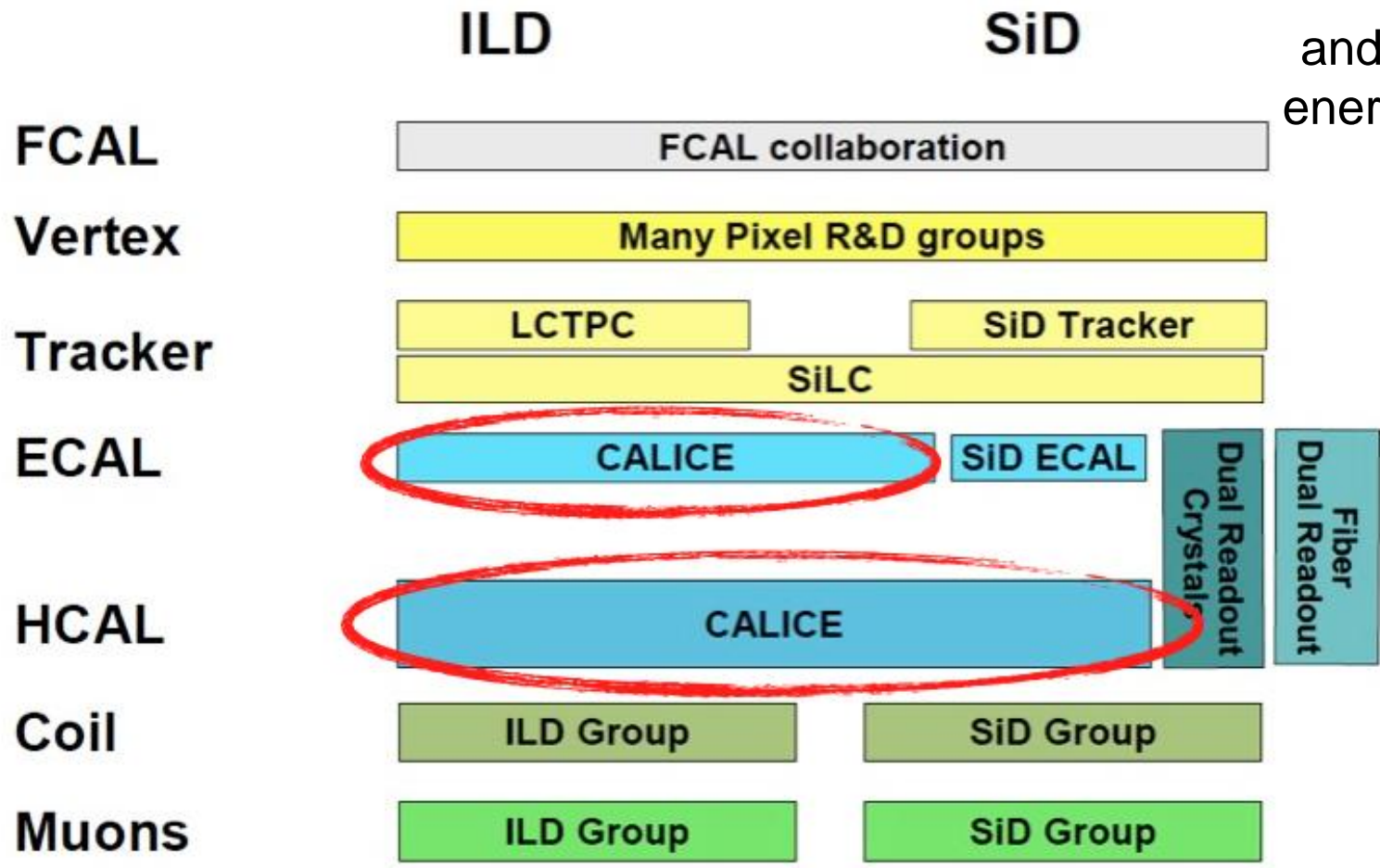
ILD meeting

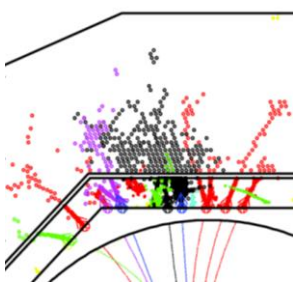
Paris, January 29, 2010

The matrix



and their high energy versions



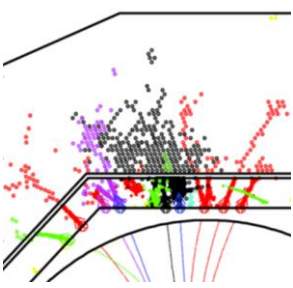


MERYL STREEP
STEVE MARTIN
ALEC BALDWIN

Written and Directed by Nancy Meyers

it's
Complicated
Divorced...with benefits.

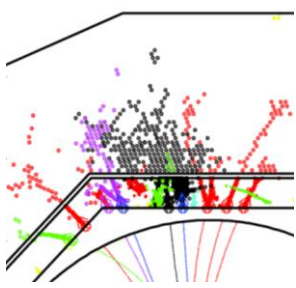
From the Writer/Director of **SOMETHING'S GOTTA GIVE**



Concepts and R&D

- ILD heavily relies on R&D collaborations for the development of sub detector technologies
 - Contact persons, not convenors
- SiD as a concept group takes a stronger role in R&D
 - ECAL in SiD, HCAL in CALICE
- CLIC has no own concept but builds on *both* ILD and SiD
 - Include all options, plus new ones (W HCAL)

→ Here only CALICE and ILD



History

- CALICE was founded in 2001 with the goal to
 - Develop calorimeters for particle flow
 - Take an integrated approach at electromagnetic and hadronic calorimetry
 - Foster cooperation between regions and avoid duplication
 - Provide a framework for sharing resources and expertise
- And the hope to develop a common language and prevent a shoot-out between technology options
- It is only now that a comparison between the basic options comes in reach
- Dealt well with internal competition so far, but: The main act is still ahead



Goals for 2012

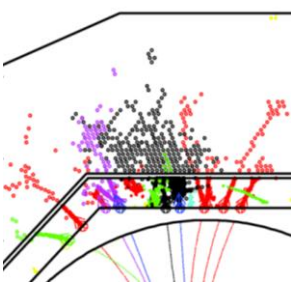
- Accomplish our R&D plan
 - Maintain the community and the momentum for beyond 2012
- Reach a consensual understanding of strengths and weaknesses of different candidate technologies, and document it
 - Stability, calibration, performance,...
 - Integration, services, dead regions,...

- Establish feasibility at technological level
- Provide realistic input to simulations
 - Validated by test beam results

**CALICE
deliverable**

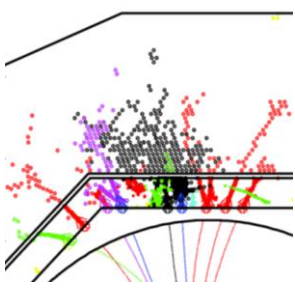
- Provide realistic input to detector integration

- Validated by design and construction



Work plan and priorities

- Disclaimer: the detector R&D is to a very large extent funding-driven
- The acquisition of funds proceeds at national level and has to respect peculiarities in each country and region
- The charges and timelines given by GDE, ILCSC, WWS have comparatively little impact – in some countries at least
- More important are physics output (Geant 4), generic high-technology advancement, synergies and spin-offs with and to other fields
- Our planning takes every partner's needs for visibility into account – this is one of the reasons for the diversity of the program. It brings resources which we would otherwise lose.



Move ahead together

- We appreciate the very successful integration of calorimeter R&D achievements and plans in the ILD LOI
- In the technical design phase to come, we need to proceed and adjust in close and continuous consultation
- We need to demonstrate that technological R&D is aligned with priorities of LOI groups
- We want to give this more room in our planning and decision making
- I invite representatives of ILD, SiD and CLIC to present and discuss their needs and priorities in a dedicated session at our collaboration meetings
 - Next: March 20-12 at Arlington, TX

Back-up