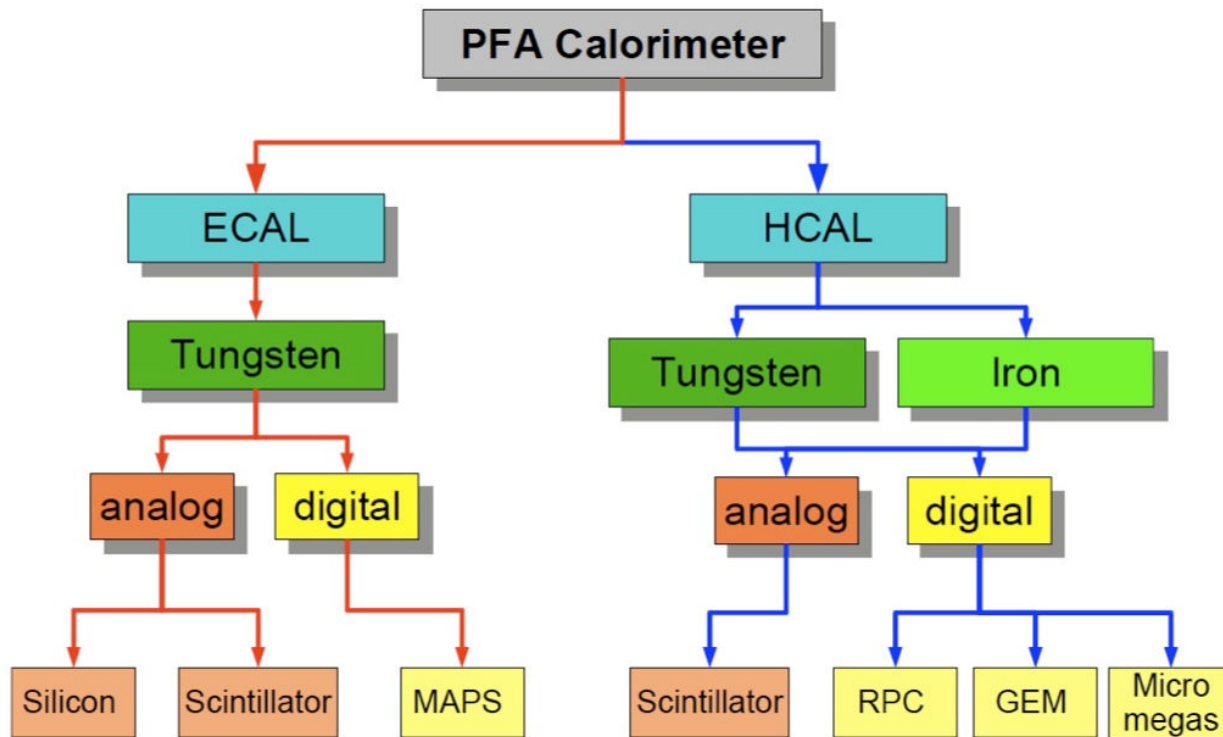




# Relations with concept groups

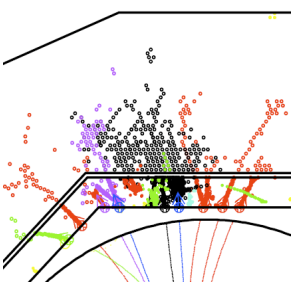


Felix Sefkow



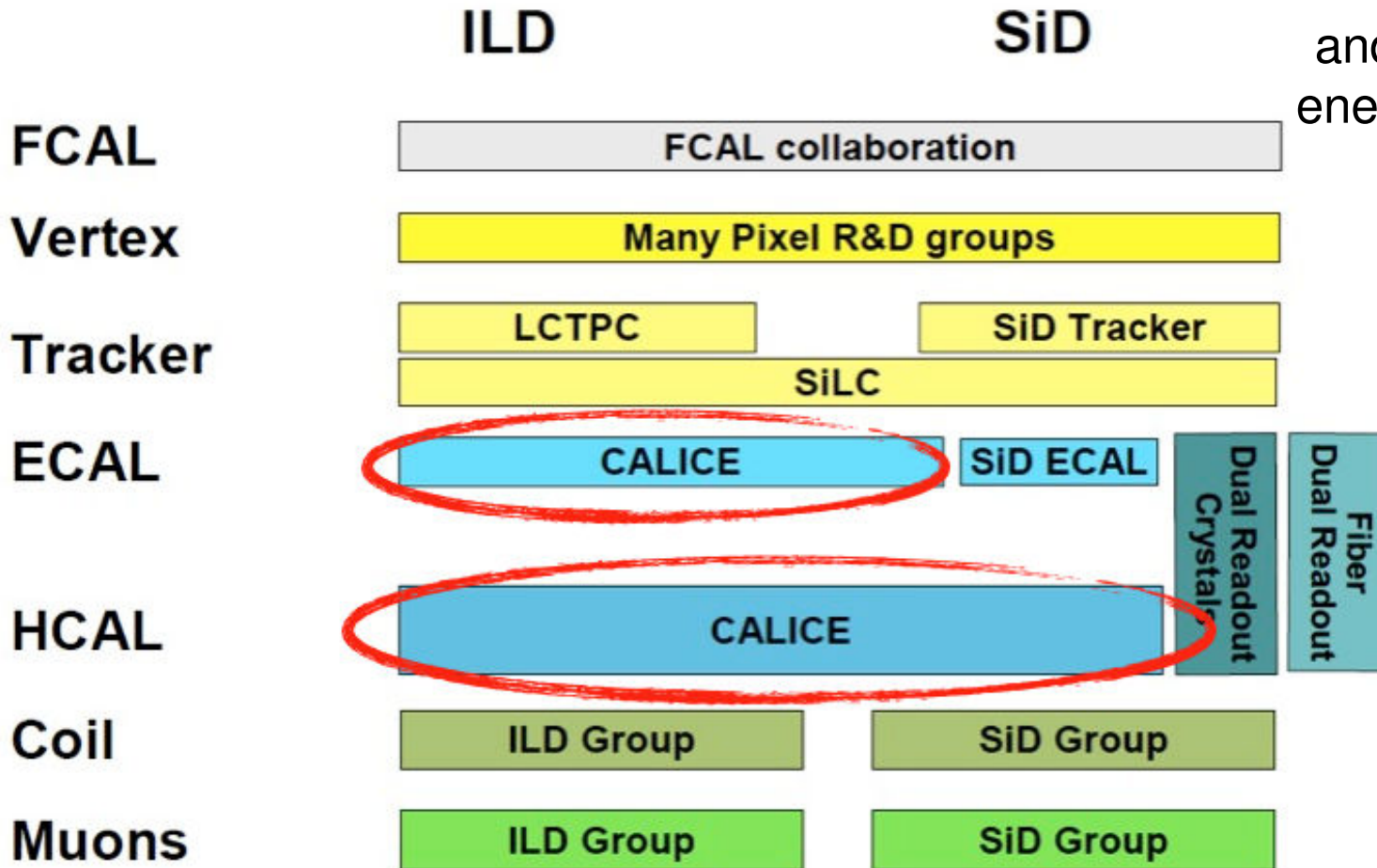
ILD meeting

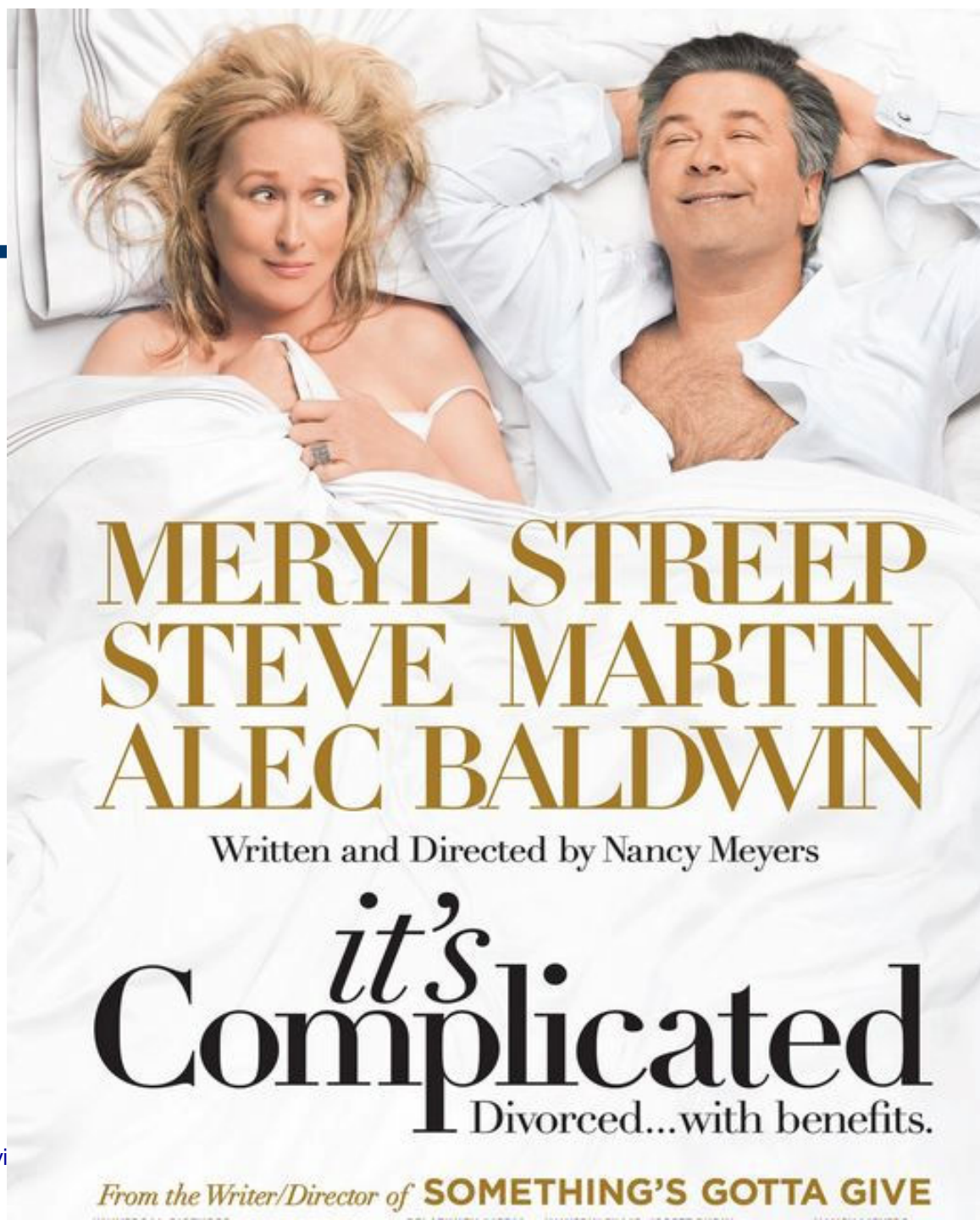
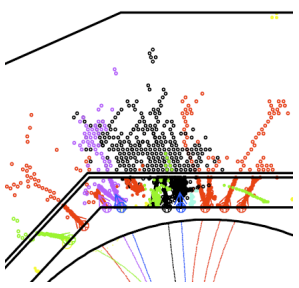
Paris, January 29, 2010



# The matrix

and their high energy versions



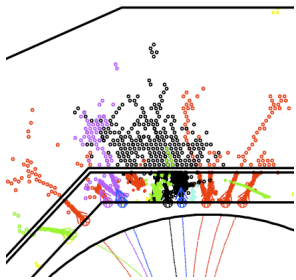


MERYL STREEP  
STEVE MARTIN  
ALEC BALDWIN

Written and Directed by Nancy Meyers

*it's*  
**Complicated**  
Divorced...with benefits.

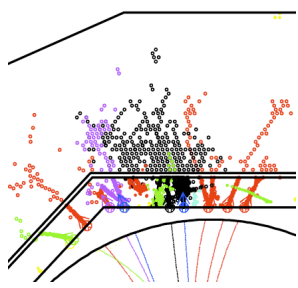
From the Writer/Director of **SOMETHING'S GOTTA GIVE**



# 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

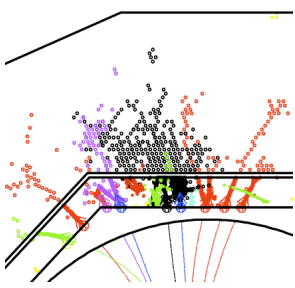
- Accomplish our R&D plan
  - Maintain the community and the momentum for beyond 2012
- Reach a consensual understanding of strengths and weaknesses of different candidate technologies, and document it
  - Stability, calibration, performance,...
  - Integration, services, dead regions,...

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

**CALICE  
deliverable**

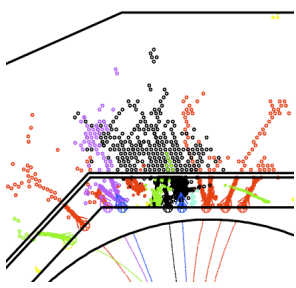
- Provide realistic input to detector integration

- 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