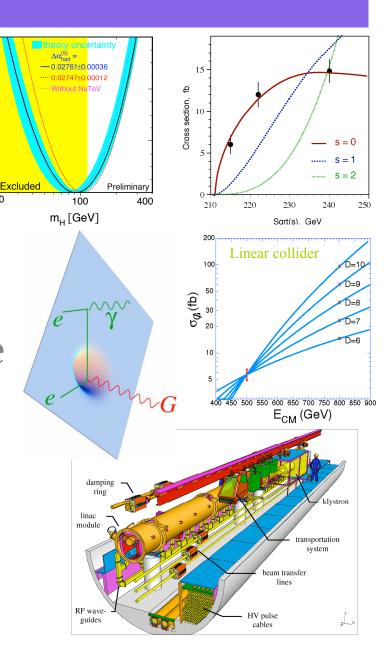
The International Linear Collider – fundamental Research on a worldwide Scale

Eckhard Elsen
DESY, Hamburg

International Linear Collider

- Science Revolution
 - (low mass) Higgs
 - Understanding Electroweak
 Symmetry Breaking –
 Supersymmetry or otherwise
- Technology available
 - ~30 km Superconducting RF
- Multi billion € project

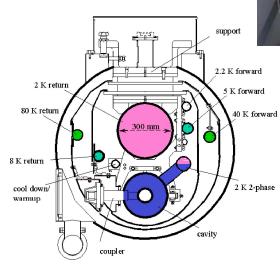


Superconducting RF

- Key technology advanced to maturity in Europe (> 25 MV/m)
- Power effective acceleration
- Tremendous spin-offs
 - light sources (XFEL)
 - proton machines







World Labs united

- ICFA endorses the recommendation of the ITRP expert panel to use SRF based on the TESLA technology for the ILC
- Global Design Team GDE under the leadership of B. Barish (CalTech) with regional directors















European Engagement

- CARE
 - JRA SRF
- EUROTeV
 - Accelerator Research
- EUDET
 - Detector Infrastructure
- ESFRI List of Opportunities
 - ILC is listed as one of the Global Projects







Industry Involvement

Institute n

representative N

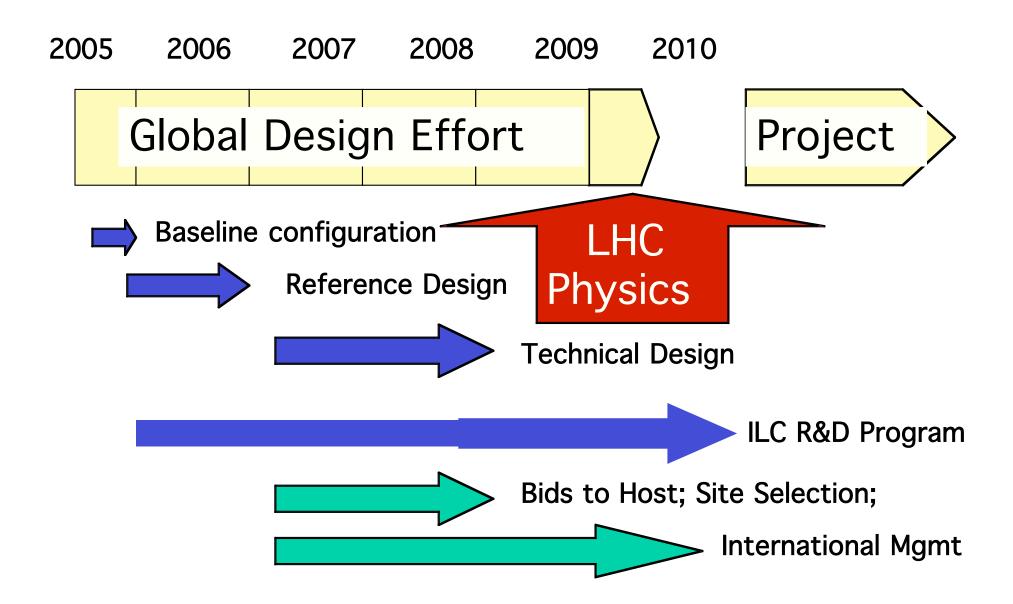
representative A representative B representative C

Spokes

Coordination board

- Industry interest
 - Information exchange
 - Advanced technology
 - Prepare for large scale production XFEL, ILC
- European Industry Forum
 - MoU just signed
 - Similar developments in Japan & US ("importing" technology)

The GDE Plan and Schedule



Summary

- ILC recognised as next large project of Particle Physics (OECD ministerial statement of 2004)
- Europe has a lead role in science and technology (TESLA technology)
- EU is structuring this process with I3s and Design Studies
- Technology process is well under way –
 Political process has to be aligned