

FCCee IFIC Open Day

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IFIC, CSIC-UV

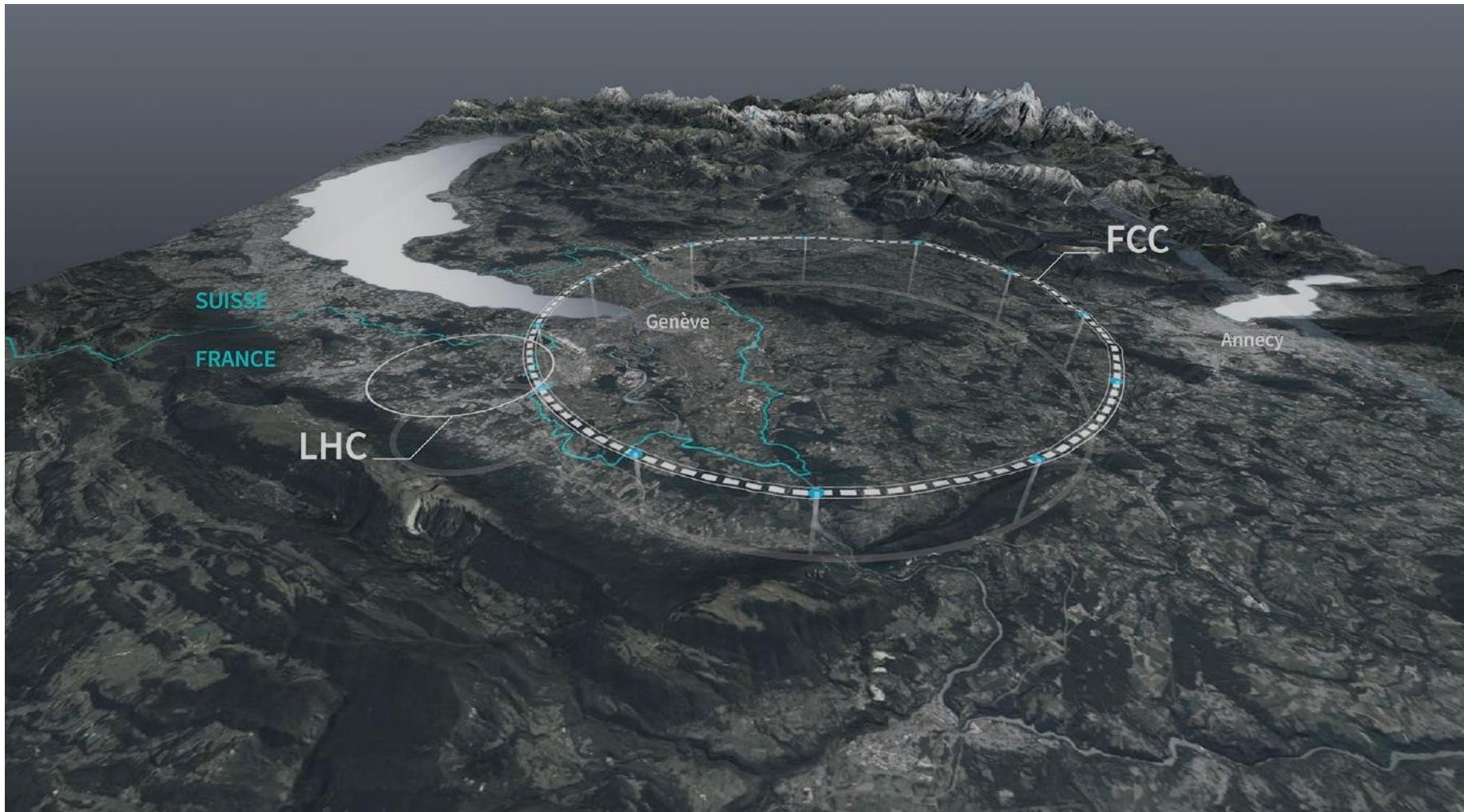
**AITANA group; †TileCAL ATLAS group*



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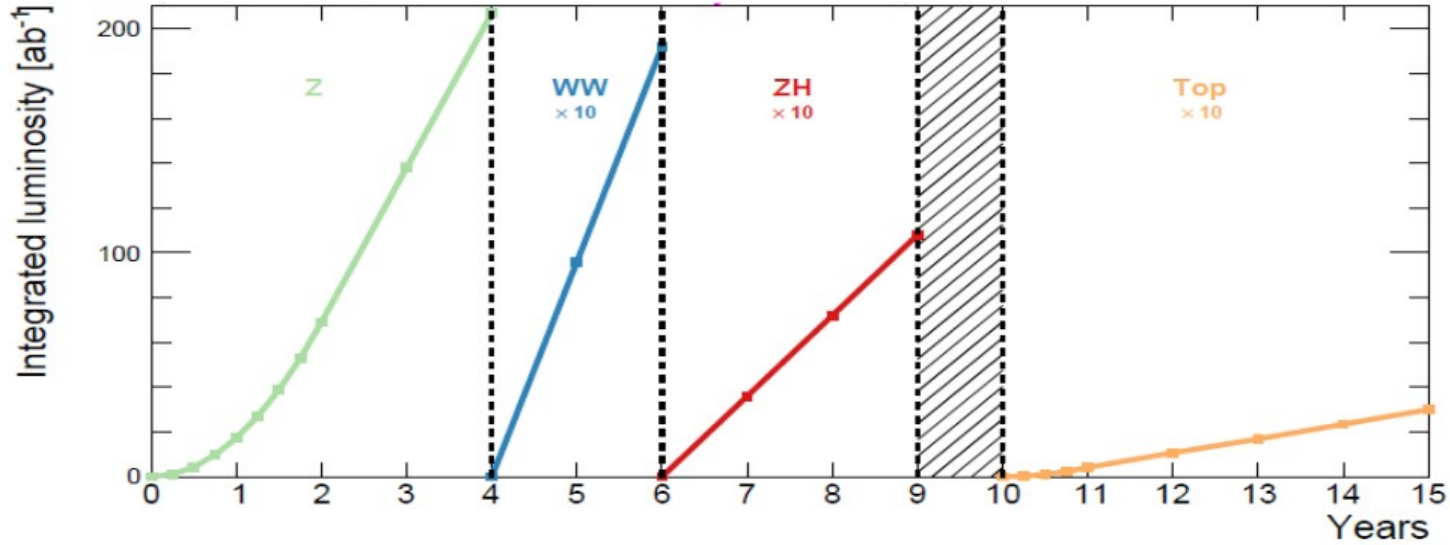
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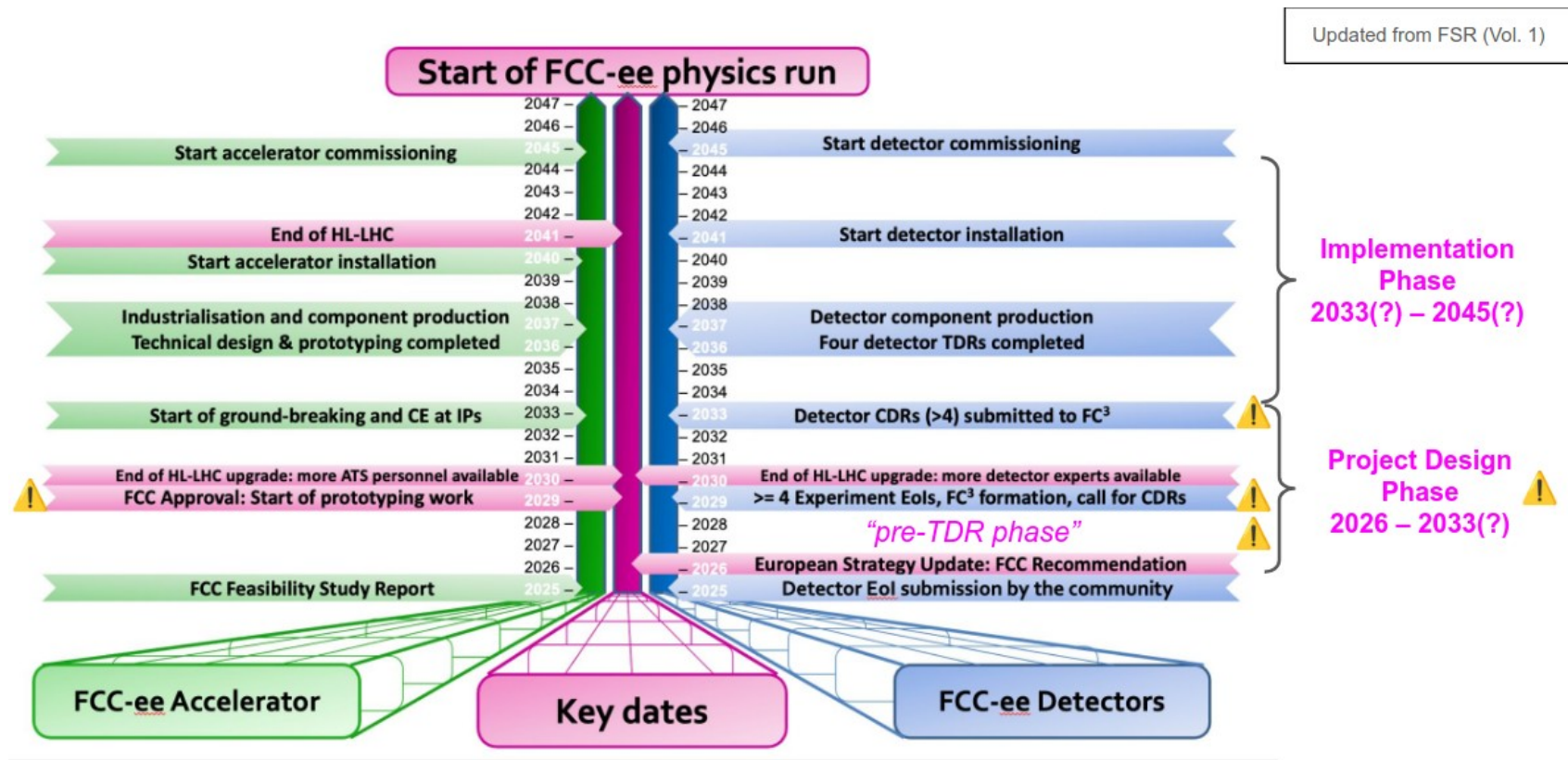
FCCee proposed operation plan

FCC-ee will operate at energy points between ~91 GeV and 365 GeV.



First two energy points (Z and WW) have been explored previously in e^+e^- collisions by LEP in 1990s, but FCC-ee sample sizes are 10^5 times (!) larger.

Data will be collected by detectors at four interaction points.



▷ FCC feasibility study

- **Accelerator** R&D and instrumentation of the machine; siting and **engineering** studies; **industry** & science networks.

▷ FCC PED : Physics, Experiments and Detectors group

Introduction session

09:30 → 09:37 **Introduction**

Speakers: Adrian Irlés (IFIC, CSIC-UV), Arantxa Ruiz Martinez (IFIC, CSIC-UV), Dr. Daniel Esperante Pereira (IFIC (CSIC-UV)), Dr. Vasiliki Mitsou (IFIC, CSIC-UV)

🕒 7m



09:40 → 09:47 **IFIC@FCC: some history**

Speaker: Vasiliki Mitsou (IFIC, CSIC-UV)

🕒 7m



▷ **This talk**

▷ **Vasiliki A. Mitsou “IFIC@FCC: some history”**



“International” session

09:50	→ 10:10	FCC Physics/DetectorConcepts/DetectorR&D ecosystem Speaker: Prof. Mogens Dam (Niels Bohr Institute (DK))	🕒 20m	✎
10:10	→ 10:30	ILD - Detector Concept Speaker: Ties Behnke (DESY)	🕒 20m	✎
10:30	→ 10:50	ALLEGRO - Detector Concept Speaker: Martin Aleksa (CERN)	🕒 20m	✎
11:00	→ 11:30	break	🕒 30m	

FCC PED – Mogens Dam (Niels Bohr Ins.)

Talks of detector concepts

- ▷ **ILD and ALLEGRO** by their spokespoersons Ties Behnke (DESY) and Martin Aleksa (CERN)
- ▷ **Both with EoI for FCC signed by IFIC members and integrated in DRDs activities**
 - **Supported/funded by joint projects IFIC-CIEMAT**
 - ILD: PID2024, CIPROM2021, PID2021,...
 - ALLEGRO: CIPROM2024...



“Local” session

11:00	→ 11:30	break
11:30	→ 11:50	FCC Physics overview and context Speaker: Antonio Pich (IFIC)
11:50	→ 12:10	Red Futuros Colisionadores + FCC event in Granada Speaker: Marcel Vos (IFIC Valencia) FCC discussion "wi...
12:10	→ 12:30	Contributions to Accelerator R&D Speaker: Daniel Esperante Pereira (IFIC (CSIC-UV))
12:30	→ 13:10	Detector Eol for FCC (submitted to ESPPU) https://indico.cern.ch/event/1529896/ IFIC groups contributed to: ILD & ALLEGRO (detector concepts) Individual contributions: SIW-ECAL ForwardCalo TileCAL Telescope ForwardCalo IFIC DRD Day SIW-ECAL Telescope TileCAL
13:10	→ 13:40	Additional contributions
13:40	→ 14:00	Discussions & AOB

▷ **Red Futuros Colisionadores & FCC Event in the “Winter Meeting” at Granada (M. Vos)**

▷ **FCC Physics – (T. Pich)**

▷ **Contributions to Accelerator (D. Esperante)**

▷ **Detector Eol for FCC (submitted to ESPPU)**

- Speakers: A. Irles, A. Ruiz, C. Mariñas

▷ **Discussion / AOB**

Take a look into the different links:

- ▶ **Eols to detector and sub-detector concepts**
- ▶ **IFIC DRD Day**

