

Introduction

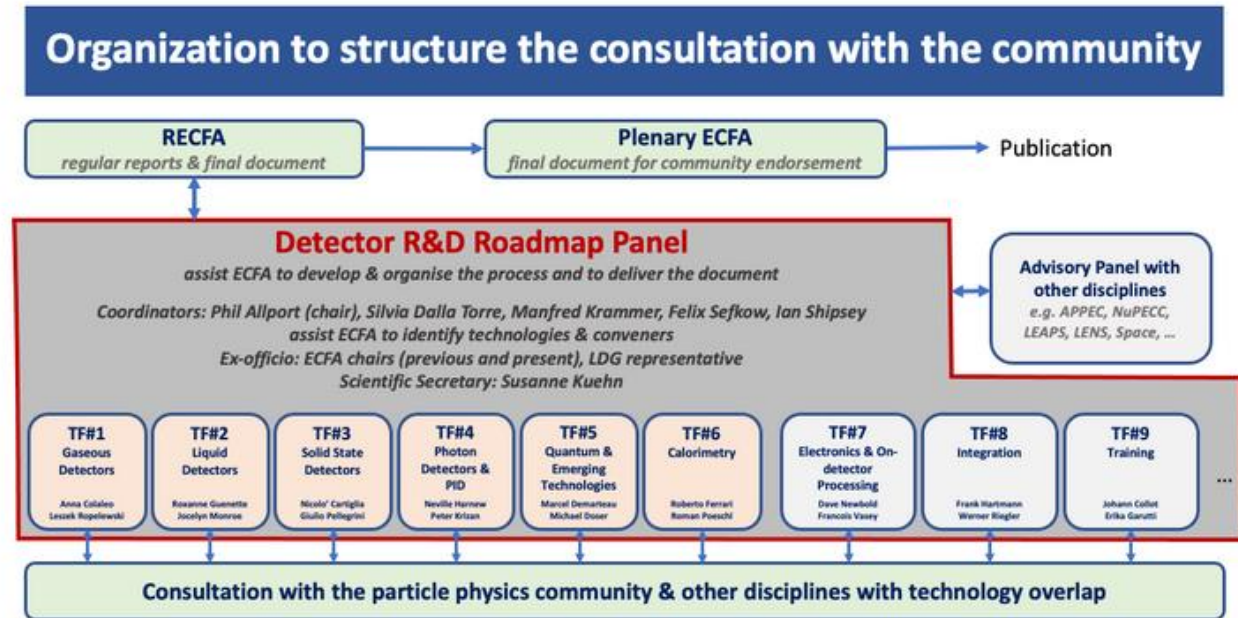
- Future colliders meeting (FCC-ee/hh, ILC) organised regularly by Roy, Maarten and Paul
- Discuss :
 - Detector concepts
 - Technologies
 - Developments at Irfu
- Meetings were slowed down by Covid, gap of almost one year

International context : Europe

- ECFA R&D Roadmap (in relation to European Strategy for Particle Physics)
- Questionnaires circulated inside HEP community
- Final ECFA Detector R&D Roadmap document endorsed by Plenary ECFA on

18th November 2021

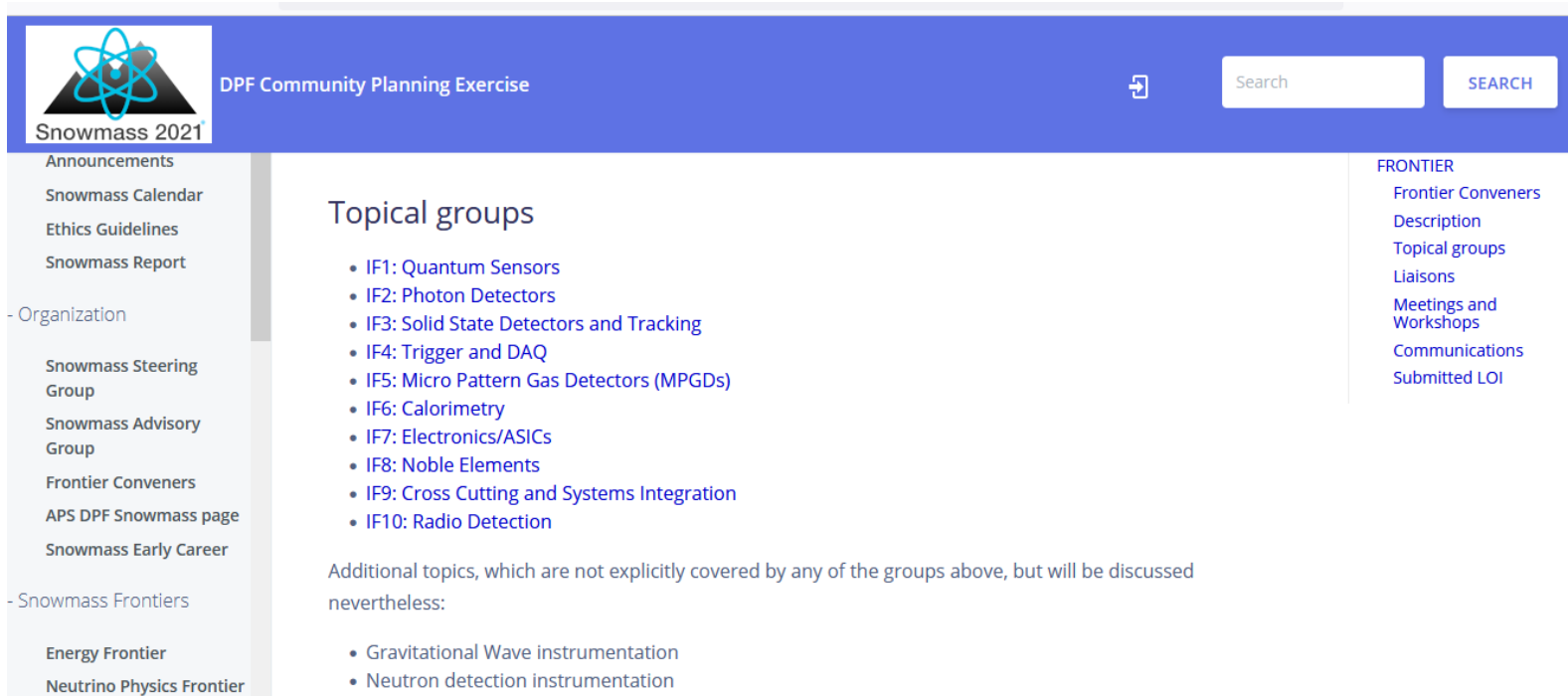
- Some of us have been involved in the process



- Roadmap document :

- <https://cds.cern.ch/record/2784893/files/?ln=fr>

International context : USA



Snowmass 2021 DPF Community Planning Exercise

Search SEARCH

Announcements
Snowmass Calendar
Ethics Guidelines
Snowmass Report

Organization
Snowmass Steering Group
Snowmass Advisory Group
Frontier Conveners
APS DPF Snowmass page
Snowmass Early Career

Snowmass Frontiers
Energy Frontier
Neutrino Physics Frontier

Topical groups

- IF1: Quantum Sensors
- IF2: Photon Detectors
- IF3: Solid State Detectors and Tracking
- IF4: Trigger and DAQ
- IF5: Micro Pattern Gas Detectors (MPGDs)
- IF6: Calorimetry
- IF7: Electronics/ASICs
- IF8: Noble Elements
- IF9: Cross Cutting and Systems Integration
- IF10: Radio Detection

Additional topics, which are not explicitly covered by any of the groups above, but will be discussed nevertheless:

- Gravitational Wave instrumentation
- Neutron detection instrumentation

FRONTIER
Frontier Conveners
Description
Topical groups
Liaisons
Meetings and Workshops
Communications
Submitted LOI

- Particle Physics Project Prioritization Panel (P5) will take the Snowmass scientific input and develop a strategic plan for US Particle Physics that can be executed over a 10 year timescale
- Scientific communities submit project proposals, evaluated by relevant panels

Agenda for today and upcoming meetings

R&D future Colliders IRFU		
Wednesday 20 Apr 2022, 10:30 → 12:30 Europe/Zurich		
123 (Saclay)		
Philippe Schwemling (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))		
10:30 → 10:35	Introduction	🕒 5m
Speakers: Paul Colas (Université Paris-Saclay (FR)), Philippe Schwemling (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR)), Roy Aleksan (Université Paris-Saclay (FR))		
10:35 → 11:05	Cahier des charges pour détecteurs tracking et timing SI à ILC/FCC-ee/hh	🕒 30m
Speaker: Didier Claude Contardo (Centre National de la Recherche Scientifique (FR))		
11:05 → 11:25	Tracking pour FCC-ee/ILC	🕒 20m
Speaker: Auguste Guillaume Besson (Centre National de la Recherche Scientifique (FR))		
11:25 → 11:45	Tracking pour FCC-hh	🕒 20m
Speaker: Marlon B. Barbero (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))		
11:45 → 12:05	Développement DMAPS orientés timing à l'Ifu	🕒 20m
Speaker: Yavuz Degerli (Université Paris-Saclay (FR))		
12:05 → 12:25	Discussions	🕒 20m
Speaker: All		

Today :

Focus on solid state detectors.

Strong expertise outside Ifu !

- Next meetings

- FCC Week in Paris, 30 May-3 June 2022 : <https://indico.cern.ch/event/1064327/>
- ILD meeting on Silicon tracking 17 May 14h00→ see with Paul Colas