



*Future Circular Collider Technical and Financial Feasibility Study
2d FCC Energy Calibration, Polarization and Mono-chromatisation workshop*

Welcome to the FCC EPOL WORKSHOP

19-30 September 2022 at CERN <https://indico.cern.ch/e/EPOL2022>

remote participation possible



2d FCC EPOL Workshop

Local organization

A. Blondel

J. Keintzel

FCC secretariat

David Goldsworthy

Julie Hadre

Program committee

WP1 Eliana Gianfelice, Ivan Koop, Tatiana Pieloni,

WP2 Jacqueline Keintzel, Katsunobu Oide, Jorg Wenninger

WP3 Aurélien Martens, Thibaut Lefèvre, Dave Gaskell

WP4 Patrick Janot, Guy Wilkinson

WP5 Angeles Faus-Golfe, Frank Zimmermann

General :

Alain Blondel, Elke Aschenauer, Tor Raubenheimer,

Vadim Ptitsyn, Todd Satogata, Frank Zimmermann

Many thanks to the programme committee!

19-30 September 2022 at CERN

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!!To find your way around CERN during the workshop, here is a [map of the meeting rooms](#) !!



Layout of the workshop week 1

Budker	SLAC	BNL	KEK	CERN	Joint EIC-FCC Working Meeting in First Week										Sat 24	Sun 25		
					Mon 19	Tue 20		Wed 21		Thu 22		Fri 23						
					Discussions and Work 4/S-020 37/R-022	Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020						
					Lunch													
18:00	04:00	07:00	20:00	13:00	Overview 13/2-005 Extra Rooms 3150/R-002 37/R-022	Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Summary 13/2-005 Extra Room 3150/R-002						
18:15	04:15	07:15	20:15	13:15														
18:30	04:30	07:30	20:30	13:30														
18:45	04:45	07:45	20:45	13:45														
19:00	05:00	08:00	21:00	14:00														
20:00	05:15	08:15	21:15	14:15														
21:00	05:30	08:30	21:30	14:30	Coffee													
22:00	05:45	08:45	21:45	14:45	Overview 13/2-005 Extra Rooms 3150/R-002 37/R-022	WG5 37/R-022	WG3 3150/R-002	WG2 3162/1-K01	WG4 37/R-022	WG3 3150/R-002	WG1 3162/1-K01	WG5 18/R-003	WG4 37/R-022	WG3 3150/R-002	WG1 3162/1-K01	Summary 13/2-005 Extra Room 3150/R-002		
23:00	06:00	09:00	22:00	15:00														
23:30	06:30	09:30	22:30	15:30														
23:45	06:45	09:45	22:45	15:45														
00:00	07:00	10:00	23:00	16:00														
00:15	07:15	10:15	23:15	16:15														
00:30	07:30	10:30	23:30	16:30														
00:45	07:45	10:45	23:45	16:45														
01:00	08:00	11:00	00:00	17:00	Break ?													
01:15	08:15	11:15	00:15	17:15														
01:30	08:30	11:30	00:30	17:30														
01:45	08:45	11:45	00:45	17:45	Drink	Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01		Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01		Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01								
02:00	09:00	12:00	23:15	18:00														
02:15	09:15	12:15	23:30	18:15														
02:30	09:30	12:30	23:15	18:30														
												Dinner						

Layout of the workshop week 1

Budker	SLAC	BNL	KEK	CERN	Mon 26		Tue 27		Wed 28		Thu 29		Fri 30		
					Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020 37/R-022		Discussions and Work 4/S-020		Discussions and Work 4/S-020		
					Lunch										
18:00	04:00	07:00	20:00	13:00	Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Plenary 3162/1-K01 Extra Rooms 3150/R-002 37/R-022		Plenary 3162/1-K01 Extra Rooms 3150/R-002		Summary 13/2-005 Extra Room 3150/R-002		
18:15	04:15	07:15	20:15	13:15											
18:30	04:30	07:30	20:30	13:30											
18:45	04:45	07:45	20:45	13:45											
19:00	05:00	08:00	21:00	14:00											
20:00	05:15	08:15	21:15	14:15											
21:00	05:30	08:30	21:30	14:30											
22:00	05:45	08:45	21:45	14:45											
23:00	06:00	09:00	22:00	15:00	Coffee										
23:30	06:30	09:30	22:30	15:30	empty 37/R-022		WG3 3150/R-002	WG2 3162/1-K01	maybe WG4 37/R-022	WG3 3150/R-002	WG1 3162/1-K01	empty 37/R-022		WG3 3150/R-002	WG2 3162/1-K01
23:45	06:45	09:45	22:45	15:45								WG4 WG5 93/R-031	WG3 3150/R-002	WG1 WG2 3162/1-K01	Summary 13/2-005 Extra Room 3150/R-002
00:00	07:00	10:00	23:00	16:00								Discussions all WGs 93/R-031 3150/R-002 3162/1-K01			
00:15	07:15	10:15	23:15	16:15											
00:30	07:30	10:30	23:30	16:30											
00:45	07:45	10:45	23:45	16:45											
01:00	08:00	11:00	00:00	17:00											
01:15	08:15	11:15	00:15	17:15											
01:30	08:30	11:30	00:30	17:30	Break ?										
01:45	08:45	11:45	00:45	17:45											
02:00	09:00	12:00	23:15	18:00	Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01		Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01		Discussions, Work or Parallel 37/R-022 3150/R-002 3162/1-K01		Discussions all WGs 93/R-031 3150/R-002 3162/1-K01				
02:15	09:15	12:15	23:30	18:15											
02:30	09:30	12:30	23:15	18:30											
					Dinner										

The goals for the workshop are as follows:

- take stock of the timeline and goals of the FCC feasibility study
- confirm and understand the physics motivations and requirements for polarization
- discuss the goals of the EPOL group towards the midterm review in June 2023 and discuss/organize how to reach them
- discuss the goals of the EPOL group towards the final report of the FCC feasibility study
- review the status of the 5 work packages of the EPOL task, establish working plans and necessary tools
- **foster international collaboration and involvement of new participants by working on/ initiating projects during the workshop**
- **it is expected also that a number of pending questions might even be resolved during the workshop!**

Documentation and output

For practicality

Generate a web page with links to the most relevant documentation (and bib references)

-- EPOL papers

-- other important papers, theses, etc.

output:

-- The indico page of the workshop will serve as repository of slides and other material shown at the workshop

-- the first workshop was the occasion to start a review paper (now on arxiv) comprising (almost) everything

-- **we might want to produce similar reviews for each of the WPs**

-- **the full review might be too large for the whole content**

-- **a short review paper cosigned by all participants summarizing it all might be an option**

-- **this to be ready for the midterm review?**

-- **or launch the process for a larger report for the full Feasibility study?**



Practical information

91 registrations, 28 on-site

Weather is nice and cool for this week (TBC for Sunday)

-- social events

Dinner Thursday 22 evening

Sunday excursion with lunch on top of Salève (weather permitting)

Dinner Thursday 29 evening

please register by filling newdle <https://newdle.cern.ch/newdle/SPxgWG5y>

Could you click on all your events to which you plan to participate?

-- private meeting rooms – please ask ahead of time if you wish to use spare rooms to get access.

David Golsworthy



LET US HAVE A FRUITFUL WORKSHOP!