

First ECFA WORKSHOP.

on e^+e^- Higgs / Electroweak / Top Factories
5-7 October 2022, DESY, Hamburg

ECFA Higgs/Top/EW Factory WG 1 - Physics Potential

ECFA

workshops on e^+e^-
Higgs/Top/EW factory

WG1:

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European Committee for Future Accelerators

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EW

5-7 October 2022



Chris Hays



Karsten Köneke



Fabio Maltoni

ECFA-WHF-WG1-HTE-conveners@cern.ch

Working Group 1 - Physics Potential: How do we fit in?

WG 1 activities ([indico](#)) and organization ([twiki](#)):

Subgroups:

- **WG1-PREC (Precision in theory & experiment):**
 - Conveners: Ayres Freitas (Pittsburgh), Paolo Azzurri (Pisa), Adrian Irlles (Valencia), Andreas Meyer (DESY)
ecfa-whf-wg1-prec-conveners @cern.ch
- **WG1-GLOB (Global interpretations in (SM)EFT and UV complete models):**
 - Conveners: Sven Heinemeyer (IFCA/IFT), Alexander Grohsjean (DESY), Junping Tian (Tokyo), Marcel Vos (Valencia), Jorge de Blas (Granada) ecfa-whf-wg1-glob-conveners @cern.ch
- **WG1-HTE (HIGGS-TOP-EW and connection with (HL-)LHC):**
 - Conveners: Chris Hays (Oxford), Karsten Koeneke (Freiburg), Fabio Maltoni (Louvain)
ecfa-whf-wg1-hte-conveners @cern.ch
- **WG1-FLAV (Heavy Flavours):**
 - Conveners: David Marzocca (Trieste), Stephane Monteil (Clermont Ferrand), Pablo Goldenzweig (KIT)
ecfa-whf-wg1-flav-conveners @cern.ch
- **WG1-SRCH (Feebly interacting particles, direct low mass searches):**
 - Conveners: Roberto Franceschini (Rome III), Rebeca Gonzalez (Uppsala), Filip Zarnecki (Warsaw)
ecfa-whf-wg1-srch-conveners @cern.ch

WG1 Seminar series, workshops, etc, see [this indico](#) category

Higgs-Top-EW and connection with (HL-)LHC subgroup (HTE)

Organization:

- Group meetings: WG1-HTE
- egroup [mailing list](#)
 - You can also subscribe to the egroups; just search for “ECFA-WHF-WG1” in egroups list .
- Conveners: Chris Hays (Oxford), Karsten Köneke (Freiburg), Fabio Maltoni (Louvain)
- Conveners' email: ecfa-whf-wg1-hte-conveners@cern.ch
 - **Please don't hesitate to talk to us for any ideas, suggestions, questions!**

Mandate:

- Identify measurements that the (HL-)LHC can perform in order to increase the physics potential of a future Higgs/Top/EW Factory.
 - High-precision inclusive measurements
 - Differential measurements, e.g., at high p_T
 - ...
- The physics potential of an e^+e^- HTE factory will also be compared to the potential of other future colliders.

You can find all our events, meetings, and workshops in our [indico category](#).

Our activities

First kickoff workshop: April 20-22 2022 (hybrid CERN/zoom)

- <https://indico.cern.ch/event/1132480/>
- Overview of activities, including reports from Snowmass

Plan series of mini-workshops (3-4h) going up in e^+e^- cms energy [zoom-only]:

- First mini-workshop: September 23 2022
 - <https://indico.cern.ch/event/1196494/>
 - Z-pole physics
- Next mini-workshop on WW threshold physics (date TBC)

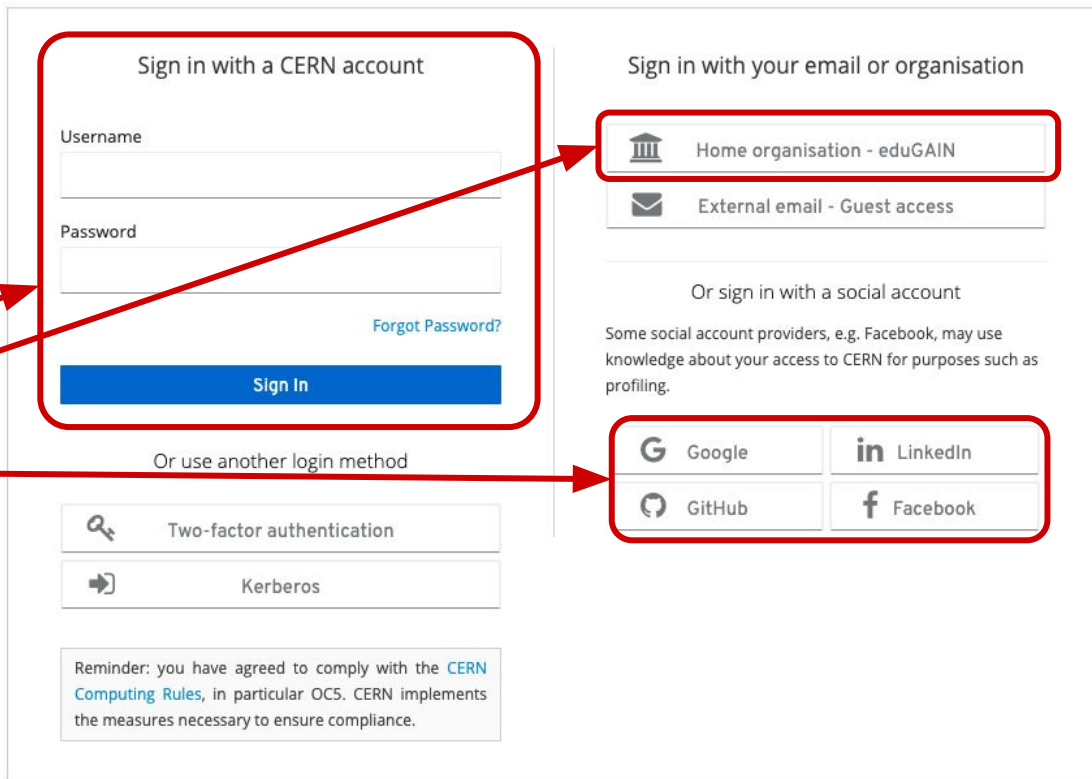
We will use mattermost for online and offline discussions.

Created new ECFA-WHF-WG1 team. [Invitation link](#)

- Use your **CERN login**, your **own institute login**, or **social media login**.

After registration to the team, join our public **HiggsTopEW** channel with [this link](#) (or search for the channel in the team)

When answering/commenting on a specific post, please use the “**reply to**” option that appears on the top right of the post after hovering with the mouse.



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