

Report from Physics Coordinators

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on behalf of the Physics WG



ILD Software and Analysis meeting
September 11, 2024



LCWS'2024 Proceedings

Will be published in the peer-reviewed journal EPJ Web of Conferences (regular journal!).

Details are available on [LCWS'2024 indico page](#)

Deadline for submission is September 16, in 5 days!

Contributions should be uploaded to indico (slide review page) for review:

<https://agenda.linearcollider.org/event/10372/>



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ICHEP'2024 Proceedings

Will be published in Proceedings of Science, invitation emails sent in mid August.

Deadline for submission is September 30

Details are available on [ICHEP'2024 indico page](#)

Contribution should be sent to PSB in 10 days, to allow for review by PSB/collaboration!



Meetings

ILD meeting

Paris, France, **October 8, 2024**

<https://agenda.linearcollider.org/event/10442/>

We will have half-day ILD meeting day before the ECFA workshop (Tuesday afternoon).
Schedule still being discussed, please register!

Registration for remote participation should also be available soon!

Meetings

3rd ECFA study workshop 2024

Paris, France, **October 9-11, 2024**

<https://indico.in2p3.fr/event/32629/>

Abstracts for posters can still be submitted (until September 30)!

Many ILD contributions accepted for oral presentation!

As for each conference, slides should be made available to ILD for comments at least few days before the presentation.

All new results need to be presented at the ILD Software and Analysis meeting before.

Last regular meetings scheduled on September 25.

If there is a need, we could organize an additional meeting (October 2nd?).

ECFA report contributions

Drafting the ECFA report will start immediately after the Paris workshop!

Speakers will be asked to prepare short write-ups of their studies (1-2 pages, 1-2 plots), which could be used as a source to draft the ECFA report.

Dedicated indico page will be prepared for submission, deadline October 20.

These write-ups could also be combined in more detailed supplementary notes on particular topics (to be discussed within ECFA working groups!).

Write-ups are also required for previously presented results!

Write-ups should be reviewed, probably following the conference proceedings procedure.

Would be best to have the first version ready for review before Paris workshop...



ECFA report contributions

LaTeX template for write-ups made available in overleaf:

<https://www.overleaf.com/read/sqtfdqjvdsnq#386e64>

My (not yet accepted by PSB) version including ILD logo:

<https://www.overleaf.com/read/hkkmgxdxdsn#90abe1>



ILD-PHYS-2024-NNN
11 September 2024

ECFA Higgs Factory Study Note

Many authors*

* *Many Institutes*

Brief summary.

Document formatting convention requests

Please follow this guidance to help the editors incorporate your text in the final report:

Particle symbols

For particles, please use the `heppennames2` package (included).

For example:

- $t\bar{t}$ is `\PQt\PAQt` (which also has the local alias `\ttbar`)
- $H \rightarrow b\bar{b}$ is `\PH\to\PQb\PAQb` (which also has the local alias `\Hbb`)

Please feel free to add other useful aliases to the relevant section of `ECFAreport_definitions.sty`.

Units

For units, please use the `siunitx` package.

For example:

- 3.1 ab^{-1} is `\SI{3.1}{\per\atto\barn}`
- $3.45 \times 10^{-4} \mu\text{m}$ is `\SI{3.45d-4}{\micro\metre}`
- 13 GeV is `\SI{13}{\giga\electronvolt}`

References

Please use the `cleveref` package via the commands `\cref` command which takes care of Fig. or Figure in an automatic way. Capitalize the c at the beginning of a sentence etc `\Cref`

Paper References

Please use the `\cite` commands, and `\biber`, For example `\cite{deBlas:2024bmz}` [1].



Software and Analysis meeting schedule

(Usually every two weeks) on Wednesday at 14:00 CERN time

- September 11 (today)
- September 25
- No meeting on October 9 (Paris workshop)
- October 23

Please use conveners' email list, if you want to present your results

ild-physics-conveners@desy.de



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Today

- Kamil Zembaczynski (University of Warsaw)
New exotic scalars at the ILC: searches for scalar particle with invisible decays