

# Discussion

on the WG1-SRCH final report

**Second ECFA Workshop on e+e- Higgs/EW/Top Factories**

October 12, 2023



# WG1-SRCH Focus Topics

Three focus topics defined:

- EXscalar – New exotic scalars
- LLPs – Long-lived particles
- EXtt – Exotic top decays

⇒ will clearly be covered in the final workshop report...

**But report is not to be restricted to the focus topics !!!**

# ECFA-WG1 final report

## Physics Potential of a Higgs / Top /EW Factory

*All WG1 Coordinators and Subgroup Conveners*

Many...

### Abstract

This documents summarizes the work of the Physics Potential Working Group of the ECFA Study on Future Higgs / Top / Electroweak Factories.....

### Keywords

Higgs Boson, Top Quark, Electroweak Physics

## 1 Introduction

[Editors: F3J]

- general introduction
- mandate of the group
- physics landscape at start of Higgs factory
- overview on rest of report

General comments, notes:

- every topic should include discussion of the expected state-of-the-art at start of a Higgs factory
- work out the "added value"
- highlight cases where improved precision from Higgs factory would impact the way LHC data could be (re-)analyzed

# WG1-SRCH contribution to the final report

In addition to the focus topics, what should we cover?

Possible candidates:

- Heavy Neutral Leptons
- Light SUSY scenarios
- Dark Matter searches

Comments, suggestions?