

Tab 1

Comments and suggestions for Conference Series “Extended Scalars from All Angles”

Goals of workshop

- (1) Investigate new physics models from a large variety of viewpoints and perspectives, with a focus on models with extended scalar sectors.**
- (2) Bring together theorists and experimentalists to discuss current status and future perspectives for the discovery of such new physics scenarios.**

In more detail...

- Current status and future perspectives at LHC and upgrades
- CP properties [including CP violation]
- Dark matter and connections to cosmology
- Scalar self-couplings
- Connections to flavour physics
- Recasting
- Precision calculations and renormalization
- EFT description



Want to keep WS/ Conference in the same spirit

- **Focussed on models with extended scalar sectors [broadly speaking]**
- **Theory/ experiment interaction**
[in future: more contributed experimental talks]
- **Cover a larger range of topics, ie not only collider/ model building/ ...**

Current planning

Make this international conference w international advisory board

Taking place roughly every 2 years [is it OK ? more often ?]

Calls for various places (alternative: always at CERN)

Open topics

- What did you like most ?
- What did you like least ?
- In your opinion, what would make this even better regarding topics or structures ?
- Do we need a poster session ?
- Should we allow online presentations in some form ?
- Should we try to keep this at cern, or at alternating places ?
- Should we connect it to some other event ?
- Favourite time of year to organize it

What about dedicated discussion sessions for specific topics ?

Summary of current contributions [3 24 pm]:

**At CERN, very slight preference for every 2 years [4.5 vs 3.5 votes],
in spring rather fall, no remote talks**

**Discussions: more experimental contributions, time for
discussions, badges !**

For comments, please also put your name and email address:

Arnaud Ferrari (arnaud.ferrari@physics.uu.se):

I looked quickly through the document and my main comment is that the location should really rotate, like most conferences (OK, not the Higgs days at Santander). In that case, the autumn should be avoided, September-October are already quite packed, maybe one could aim at a spring conference instead?

And I would advise against remote presentations. Hybrid meetings are usually harder to follow on Zoom and you want to be able to engage with speakers, hence have them in person.

Lidija Zivkovic (Lidija.Zivkovic@cern.ch)

It would be great that this workshop becomes a more regular event. For a location rotation there are “pros” and “cons” for both options in my opinion.

Pros for rotation and outside of CERN: Can attract more dedicated discussion and people. For instance, right now not even 10% of the people in the room are experimentalists. At CERN people easily get distracted by other events.

Cons (or better to say Pro for CERN): It is a better accessible and cheaper option. You can attract more people since they might come for other purposes as well.

I don't think it should be connected to another event.

I don't think it should be hybrid, people will wander even easier.

Johannes Braathen (johannes.braathen@desy.de)

- Having this workshop as a regular event, every 2 years, would be nice. Spring might be better than autumn (in September there are already 2 regular workshops focusing on extended scalar sectors, namely Scalars in Warsaw and Multi-Higgs in Lisbon, alternating)
- I am not sure a poster session would be very beneficial; also remote talks should be avoided (but I don't think having a Zoom link for remote participants is necessarily a problem)
- Name badges (or communicating to people before the workshop to bring a name badge) would be important to have.

Margarete Mühlleitner (milada.muehleleitner@kit.edu)

- I appreciate the workshop a lot and vote for having it at least every two years. It is an excellent format to bring together all relevant people working on this topic.
- It would be great to attract more experimentalists if this is possible.
- I would vote for having it at CERN. I see the cons also of course. But CERN has the advantage, that rooms are available, it can be kept in a simple format w/o workshop fee, which makes it easier for a lot of people.

Rui Santos (rasantos@fc.ul.pt)

- Excellent workshop, very well organised.

- Should happen every year. The time of year is good but spring would also be nice. Be careful not to overlap with the other scalars conferences.

- CERN was an excellent choice and should always be at CERN. People like to visit CERN, and this would be a good opportunity to come every year.

- No zoom talks, no poster sessions, just an old school workshop.

Jose Miguel No (josemiguel.no@uam.es)

- I am really enjoying the workshop. I appreciate the fact that all talks are plenary and in person, and despite the intense program there is time for discussion (this last point, I feel it is very much connected to it being at cern).
- I would like it to be a regular event, but every year seems too much at first (with many other Higgs-oriented workshops), I would vote for every two years.
- I think it should be better in spring than autumn (Sept-October are where Higgs Days, Higgs Hunting, Multi-Higgs, etc happen... too much overlap).
- It should always be at cern: easier not to have workshop fee, accommodation is easier, and creates the perfect environment for a 1-week workshop.

Carlos Wagner cwagner@uchicago.edu

- I highly enjoyed this workshop. It is very well organized and all talks seem interesting and fulfilling the main goal of the workshop, that is the connection of theory with experiment.
- Having it every two years seems optimal and CERN is the perfect location for it.
-

Igor Ivanov (igor.ivanov@tecnico.ulisboa.pt)

- I fully support the workshop as a regular event, preferably every other year. If organizing it annually, it may be a good idea to have each year a slight bias towards a specific subtopic within the field of extended scalars.
- It may be a good idea to allocate time for one or two discussion sessions for more in-depth discussions on specific topics.
- The talks selection and their daily organization are great. But some other aspects of organization are a bit too minimalistic. I think the workshop organization is not particularly friendly to newcomers (both to CERN and to the field). There are PhD students who attend an international multi-scalar event for the first time and do not know most of the community in person. For them, badges would be very helpful. The organizers do not even need to produce the badge by themselves, they could ask all the participants to come with their badges and wear them as courtesy to the younger participants.
- Please allow for longer lunch breaks, by half an hour or so. It will help cope with various short issues during the lunch time instead of during the talks.
- After seeing many speakers struggling with the clicker, I suggest using a clicker which most people are familiar and comfortable with. Or to connect two different clickers so that the speakers use whatever they prefer.
- Please ask CERN to oil the hinges of the back entrance door. I hope they can have it done by the next event.

Nicolas Berger

- First, I really enjoyed attending the conference, although I could not be present for the whole duration. Having it as a regular event would be great, especially since the topic is not well-covered by other events.
- Having the conference every year sounds slightly better to me than every two years, based on how quickly the field has been evolving recently, but it is true that the coming years may be a bit slower so a biannual schedule could be OK as well.
- Related to the above, having the conference over a full week seems a bit much for the topic. Limiting to 3-4 days could make it easier to attend in person and have better focus.
- As an experimentalist, I found the invited plenaries extremely interesting and useful, but had more mixed feelings on the contributed talks: in many cases they were rather specialized and in some cases not so easy to follow for non-experts. One possibility would be to have (a small number of) parallel tracks for this part of the program, so that one can focus on presentations on which one is sufficiently expert to make attendance useful. This could also have the side effect of possibly shortening the overall length of the conference as mentioned above.
- Related to the above, as an experimentalist I found the program a bit too theory-heavy -- but of course this is a personal opinion and maybe I missed some experimental contributions. Experimental talks can be a bit more work to arrange with the collaborations, but there are mechanisms in place for this. Also I was expecting more talks focused on future colliders -- again maybe I just missed the relevant talks but in any case it could be something to emphasize in later editions since this will become more and more relevant.
- Having the event at CERN is convenient, since travel there can be coupled with other local activities (for experimentalists in particular). Also local organization is easier to manage, both in terms of available rooms, local infrastructure, etc. Other locations have the benefit of potentially reaching other people who cannot travel to CERN so easily, but also can make it harder for others (in particular Europeans, if the workshop is on another continent). Probably alternating between different locations would be best, accounting for the typical geographical distribution of the attendees. A yearly periodicity may also make it easier to "sample" different locations.
- Online presentations shouldn't be the rule, but having a small number for special cases can be a good thing -- it can help to reach people who are unable to travel for any reason (related to the above). I would (strongly) suggest in-person talks but keep open the option of remote talks.

Thanks again for organizing this great workshop, and I look forward to future editions!

Gui Rebelo (M. N. Rebelo) rebelo@tecnico.ulisboa.pt

I think that it is an excellent idea to have a Conference Series
"Extended Scalars from All Angles" at CERN.

- I find the fact that there is no registration fee very positive

- CERN also has the advantage over most places in the world that it has a Hostel where you can have comfortable lodging that is much cheaper than in any hotel

- furthermore CERN has a cafeteria where one can eat both lunch and dinner for a reasonable price.
- in addition there are lots of flights to Geneva from many places in the world and one can usually find good fares. There are also low cost companies flying to Geneva.
- from the scientific point of view CERN is a fantastic place and it should be very easy to attract experimentalist to participate.
- CERN has an excellent library where you can sit and do some work in the intervals as well as plenty of places where one can have physics discussions with colleagues
- public transport connecting CERN to the airport, to town and to France close to the border works very well.

Tab 2

