

#### **19 Nov**

#### RECFA meeting – closed session

9:00-11:00 RECFA meeting

#### PECFA meeting - open session

#### Standing items & progress on ILC and FCC

14:00-16:00 ECFA chair (incl result election) (35+10min) – Jorgen D'Hondt

CERN (20+10min) – Fabiola Gianotti

DESY (15+5min) – Joachim Mnich

NLF (15+5min) – Fabio Bossi

16:00-16:30 BREAK

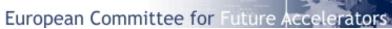
16:30-18:00 Mid-term Bulgaria (12+3min) – Plamen laydjiev

Mid-term Sweden (12+3min) – David Milstead

Status ILC (20+10min) – Steinar Stapnes

Status FCC (20+10min) – Michael Benedikt









#### 20 Nov

#### PECFA meeting – open session

#### **Topical session**

on the state of th
Detector R&D Roadmap (20+10min) – Susanne Kuehn
Accelerator R&D Roadmap (20+10min) – Lenny Rivkin
BREAK
Session on γ-factory
Physics context and opportunities at the HL-LHC (20+10min) – Witek Krasny
Technical aspects, R&D and Proof-of-Principle (20+10min) – Yann Dutheill
Physics applications of $\gamma$ -factories (20+10min) — Dimitry Budker
BREAK
EuPRAXIA (20+10min) – Ralph Assmann
Snowmass process (20+10min) – Young-Kee Kim
African Strategy for Fundamental Physics & Applications (10min) – Fairouz Malek
BREAK
Muon Collider Collaboration (20+10min) – Daniel Schulte
Storage Rings for charged-particle EDMs (20+10min) — Paolo Lenisa
EU ESCAPE project (20+10min) – Giovanni Lamanna



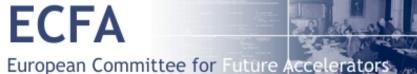
# Report from ECFA chair

Jorgen D'Hondt (Jorgen.DHondt@cern.ch)
PECFA meeting, November 19th, 2020, remote



### Schedule for 2020 (adapted due to COVID-19)

- RECFA meeting, 17 April 14:00-18:00 CET REMOTE
- RECFA meeting, 15 May 14:00-18:00 CET REMOTE
- RECFA meeting, 13 July 10:00-12:00 CET REMOTE
- PECFA meeting, 13 July 13:30-17:00 CET REMOTE
- RECFA meeting, 9 October 14:00-18:00 CET REMOTE
- RECFA & PECFA meeting, 19-20 November REMOTE ← TODAY



ECFA Newsletters #1 - #2 - #3 - #4 - #5 available on the ECFA website:

https://ecfa.web.cern.ch





- 1. JENAA: ongoing activities & call for concrete proposals for EoI support
- 2. JENAA: WG Diversity & WG Recognition
- 3. Selected venue for the next JENAS event in 2021-2022
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- 5. Progress with the Detector R&D Roadmap
- Joint EPS-HEPP and ECFA sessions (July 2021, Hamburg)
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Joint ECFA-NuPECC-APPEC Activities http://www.nupecc.org/jenaa/



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### **Expressions-of-Interest (EoI) from JENAS**

http://nupecc.org/jenaa/

Following JENAS 2019 and a call for EoIs in the communities, in total 5 themes have been selected to be strengthen through further synergies between APPEC, ECFA and NuPECC:

- Machine-Learning Optimized Design of Experiments MODE (T. Dorigo et al.)
- Initiative for Dark Matter in Europe and beyond: towards facilitating communication and result sharing in the Dark Matter community (iDMEu) (G. Lanfranchi et al.)
- Gravitational Wave Probes of Fundamental Physics (T. Galatyuk, P. Pani et al.)
- Nuclear Physics at the LHC (L. Fabbietti, A. Kalweit et al.)
- Storage Rings for the Search of Charged-Particle EDMs (C. Carli, P. Lenisa, J. Pretz for the JEDI and CPEDM collaborations)

In general, these themes have been noted in the updated Strategy for particle physics. In dialogue with the proponents, we explore how the three committees can strengthen them.



### **Expressions-of-Interest from JENAS – Task Force**

#### ECFA members of the Joint APPEC-ECFA-NuPECC task force

Task Force ML topic: Marek Tasevsky (FZU, Cz) and Mikko Voutilainen (HIP, Fi)

<u>Task Force DM topic</u>: Claude Vallée (CPPM, Fr) and Isabell Melzer-Pellmann (DESY, De)

Task Force GW topic: Nick van Remortel (UA, Be) and Peter Levai (Wigner, Hu)

<u>Task Force Nuclear@LHC</u>: no ECFA delegate (only APPEC and NuPECC)

<u>Task Force EDM topic</u>: Mike Seidel (PSI, Ch)



### **Expressions-of-Interest (EoI) from JENAS**

The path towards the APPEC, ECFA and NuPECC help concrete, chronologically:

- 1. For the collection of EoI topics we have a **joint APPEC-ECFA-NuPECC task force**, and with all task force members together, we aim to obtain coverage for all EoI topics
- 2. The chairs of APPEC, ECFA and NuPECC will organize a **kick-off gathering** with the EoI proponents and the identified APPEC, ECFA and NuPECC task force members
- 3. The proponents will be asked to create (if not yet done) a **dedicated website for their project**, indicating the JENAS logo and the link to APPEC, ECFA and NuPECC
- 4. The EoIs coordinators and the task force members connected to a topic will be invited to organise follow-up topical meetings with the objectives to come to a concrete plan
- 5. Report to our committees/consortia the concrete plan for consideration and endorsement
- 6. A dedicated APPEC-ECFA-NuPECC **JENAS website** will be created indicating past and future JENAS events and the weblinks to the EoI websites: <a href="http://nupecc.org/jenaa/">http://nupecc.org/jenaa/</a>
- 7. Agree on a **communication line** between APPEC, ECFA and NuPECC for each of the EoI topics, e.g. initially through the members of the task forces



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- 4. The EoIs coordinators and the task force members connected to a topic will be invited to organise **follow-up topical meetings** with the objectives to come to a concrete plan
- 5. Report to our committees/consortia the concrete plan for consideration and endorsement NEXT STEP
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  events and the weblinks to the EoI websites: <a href="http://nupecc.org/jenaa/">http://nupecc.org/jenaa/</a>
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#### European Committee for Future Accelerators





# Expressions-of-Interest from JENAS – call for concrete proposals

From: Jorgen D'HONDT Jorgen.DHondt@vub.be

Subject: JENAS: call for concrete proposals for financial support of JENAS Eols activities

To: jenas-eoi-iDMEu-proponents@cern.ch, elena.cuoco@ego-gw.it, brunner@cppm.in2p3.fr, tasevsky@mail.cern.ch, Mikko.Voutilainen@cern.ch, Franck.Sabatie@cea.fr, oberlack@uni-mainz.de, calore@lapth.cnrs.fr, Claude Vallee Date: 14 October 2020 at 10:55 микко. уодиналнен есептоп, гталько замае есеа..., отепаское штипальное, сактое артистично, клаское мисто vallee@cppm.in2p3.fr, Isabell.Melzer-Pellmann@cern.ch, sharkov@itep.ru, tb@astrouw.edu.pl, Prof.dr J.F.J. van den Brand jo@nikhef.nl, Nick van Remortel nick vanremortel@uantwerpen.be, levai.peter@wigner.hu, wolf@rmki.kfki.hu, Josenkheitili, Nick van Heinoriet inch, vaniendriete daniworpethoe, jevanpotere wignerin, wonerinkheit donato@to.infn.it, Xin.Wu@cern.ch, navin@ganil.fr, Eberhard Widmann eberhard.widmann@oeaw.ac.at, uonauo ilumini, Alli Moodini, navino garini, Luonneta Manmanco andrea.giammanco@cern.ch, h.stroeher@fz-juelich.de, tommaso.dorigo@gmail.com, Andrea Giammanco andrea.giammanco@cern.ch, julien.donini@cern.ch, dderkach@hse.ru, andrey.ustyuzhanin@cern.ch, Christian.Carli@cern.ch, lenisa@fe.infn.it, Jurier Commission (Commission of the Commission galatyuk@ikp.tu-darmstadt.de, paolo.pani@uniroma1.it, Gaia Lanfranchi gaia.lanfranchi@inf.infn.it, Caterina Doglioni Caterina Doglioni@cern.ch, petricca@mpp.mpg.de, florian.reindl@oeaw.ac.at, jocelyn.monroe@rhul.ac.uk, marco.cirelli@cern.ch, silvia.pascoli@cern.ch, Seidel Mike (PSI) Mike.Seidel@psi.ch

патосывше оснтол, эпута рассителентол, эвисе илике (гол) илике эвисе структор D'Hondt jodhondt@vub.ac.be, Sissy Kôrner Cc: Marek.Lewitowicz@ganil.fr, Teresa Montaruli teresa.montaruli@cem.ch, Jorgen D'Hondt jodhondt@vub.ac.be, Sissy Kôrner Sissy.Koerner@ph.tum.de, Carlos Lacasta carlos.lacasta@ific.uv.es

It gives us great pleasure to observe that the dialogues between the proponents of each of the five JENAS EoIs and the members of the APPEC-ECFA-NuPECC Task Force is progressing well. At this stage, the chairs of APPEC, ECFA and NuPECC encourage to work towards concrete applications for APPEC-ECFA-NuPECC funding from the proponents of each of the five JENAS Eols in consultation with the relevant members of the Task Force. This will allow us to bring forward a coherent proposal for final endorsement to our committees and consortia. Below a list of items that could be considered.

- 1) Support the organization of gatherings across communities on the EoI topic, e.g. workshops, town meetings,
- 2) Support the dissemination of the EoI topic, e.g. professional website, publications, outreach projects including city science projects, .
- 3) Support to foster the cross-disciplinary research environments in a sustainable fashion.

Funding will be limited and may not always fulfill the wishes. Matching the requested funds with in-kind funds from the proponents themselves will be appreciated. Proposals have to be communicated to the chairs of APPEC, ECFA and NuPECC by 23 November 2020 the latest. Please adhere to a 5-page limit for your application document.

Thank you very much in advance. With kind regards,

Jorgen D'Hondt, ECFA chair, Jorgen.DHondt@vub.be Marek Lewitowicz, NuPECC chair, Marek Lewitowicz@ganil.fr Teresa Montaruli, APPEC chair, teresa.montaruli@cern.ch



- Support the organization of gatherings across communities on the EoI topic, e.g. workshops, town meetings, platforms for continuous discussions, ...
- Support the dissemination of the Eol topic, e.g. professional website, publications, outreach projects including city science projects, ...
- Support to foster the cross-disciplinary research environments in a sustainable fashion.

deadline 23 Nov 2020



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### **WG** Diversity

http://www.nupecc.org/jenaa/?display=diversity

"For particle physicists, **the principles of equality, diversity and inclusion should be clearly and recognisably present in all of the field's activities**. Training appropriate to this end should be available at CERN and other institutes, and best practices shared among them."

Extract from the 2020 Strategy update

Working group on diversity together with APPEC and NuPECC (ECFA contact: Patricia Conde Muíño, Nadia Pastrone)

A "Diversity Charter" is presented to large collaborations to embrace diversity in all its actions and to monitor the key aspects of diversity in their collaboration.

Direct link: <a href="http://nupecc.org/jenaa/docs/Diversity\_Charter\_of\_APPEC\_\_ECFA\_NuPECC-8.pdf">http://nupecc.org/jenaa/docs/Diversity\_Charter\_of\_APPEC\_\_ECFA\_NuPECC-8.pdf</a>
Several collaborations replied already very enthusiastically and positive.



### **WG** Diversity

- Diversity Charter distributed in summer to collaborations of APPEC/ECFA/NuPECC above 150 people
  - few signatures collected already
  - o some collaborations contacting their Collaboration Boards and/or their Diversity Groups
  - received questions and issues related to data protection and the survey
- Contacted the CERN Data Protection Office which clarified all doubts about the survey
  - o re-structure the survey to ensure that no single person can be identified
    - ✓ example: researchers from small country, in XX collaboration with YY-ZZ age group
    - ✓ group small countries/collaborations to ensure complete anonymity
- Next steps:
  - finish the implementation of the survey
  - o follow up with the collaborations —> start collecting and analysing data
  - o go ahead with conferences (add an "online-event" category due to COVID and dealing with data protection issues)



### WG Recognition

http://www.nupecc.org/jenaa/?display=recognition

"It is important that **recognition for individuals in large collaborations be improved, following the guidelines of the corresponding ECFA study group**. In particular, journals dedicated to technologies and theoretical and experimental methods should be supported."

Extract from the 2020 Strategy update

Working group on recognition together with APPEC and NuPECC (ECFA contacts: Marcel Merk (co-chair), Bogna Kubik, Djamel Boumediene)

Key objective is to create a platform for large collaborations to exchange best practices among them and across disciplines.



### **WG** Recognition – actions

- Large collaborations, where large means > 40 authors.
- Invitation letters on behalf of ApPEC-ECFA-NuPECC to the following initial list
  - ApPEC (34)
    - AMS, Antares, Auger, Baikal GVD, Borexino, CALET, CTA, CUORE, DAMIC, DarkSide, Darwin, DEAP, Edelweiss, ET, EUCLID, Fermi-LAT, Gerda, IceCube, Juno, Katrin, Km3NeT, Legend, LIGO, LISA, LSST, MAGIC, Pamela, SNO+, Virgo, XENON, HESS, HAWC, JEM-EUSO, LHAASO
  - ECFA (14)
    - Atlas, Belle-II, Calice, Cast, Cloud, Dune, CMS, Compass, Dirac, LHCb, NA61/SHINE, NA62, Solid, T2K
  - NuPECC (33)
    - A2, ACTAR/TPC, AD, AEGIS, AGATHA, ALICE, ALPHA, BM@N, CBM, CLAS, COLLAPS, CRIS, DESIR, Galileo, Ganil, Gbar, HADES, HISPEC/DESPEC, IDS, INDRA, Isolde, JEDI, MATS, Miniball, MPD, nTOF, NFS, NUSTAR, PANDA, PARIS, R3B, S3, SuperFRS
  - Due to the large number of collaborations in the realm of APPEC, ECFA and NuPECC, first contacted collaborations in sub-working group meetings.



### **WG** Recognition – actions

- Held two discussion sessions with collaborations:
  - July: First meeting providing further clarifications and initial discussions,
  - September/October: Second meeting collecting feedback from the collaborations.
- Detailed feedback received from almost all major collaborations in ECFA.
- Currently digesting the feedback and having "across-JENAS" discussions.
  - o feedback of the ECFA collaborations collected: <a href="https://indico.cern.ch/event/776784/">https://indico.cern.ch/event/776784/</a>
  - o note that ALICE is not missing but was part of the NuPECC group discussion
- Working towards a list of "practices"/"recommendations" grouped as:
  - "generally accepted"
  - 2) "under debate"
  - 3) "controversial"
- Each collaboration remains responsible for their own practices.



### WG Recognition – first observations

- The "individual recognition" issue generally seen as important and relevant:
  - efforts to improve appreciated by collaborations at large.
  - o actions in various collaborations already being taken.
  - collaborations are open for feedback and suggestions.
- Outcome of previous ECFA questionnaire was generally not very surprising to collaborations, but helped to raise awareness.
- Focus tends to be on early career researchers. However, do not forget recognitions of seniors and their career path as well.
- Recognition issue important for technical ("enabling") work:
  - o detector, software, calibrations, analysis objects,...
- The importance of the issue seems to scale with the size of the collaboration.
  - o large collaborations often have measures in place while small ones do not need them.



### WG Recognition – topics of discussion

#### Towards listing Best Practices for:

- Awards and Rewards
- Reviews and publication procedures
- Authorship of papers and notes: recognizing contributions
- Conference presentations: selection and contents
- Decision making processes
- Promoting juniors
- Promoting technical work (detector, software, calibration,...)
- Communication/information to committees inside/outside own research field



### WG Diversity & WG Recognition

In our research field I observe, and we expect, competition between collaborations on the scientific front, i.e. for the most citated publications, for the longest list of publications, for the most prestigious conference presentations, for the best performing experiment, and what have you...

Maybe one day we can stimulate collaborations to compete for a prestigious and very visible APPEC-ECFA-NuPECC "diversity quality label" and "recognition quality label".







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### Selection for the venue for the next JENAS event

Joint ECFA-NuPECC-APPEC Seminar - <a href="http://www.nupecc.org/jenaa/">http://www.nupecc.org/jenaa/</a>

- Applications received from Madrid and JINR.
- The organizing board of JENAS 2019 made the selection:
  - o ECFA: Manfred Krammer, Carlos Lacasta, Jorgen D'Hondt
  - NuPECC: Angela Bracco, Eberhard Widmann, Marek Lewitowitcz
  - o APPEC: Teresa Montaruli, Stan Bentvelsen, Antonio Masiero Marco Pallavicini
- Madrid selected as the venue for the next JENAS event.
- Flexibility to organize the next JENAS event in the Fall of 2021 or early 2022.



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### Mandate for the ECFA ECR Panel

- The objective of the ECFA Early-Career Researchers (ECR) Panel is for its members to discuss all aspects that contribute in a broad sense to the future of the research field of particle physics. In its advisory role to ECFA, the panel reports to ECFA on a regular basis. An annual report of the ECFA ECR Panel is added as a standing item to the agenda of Plenary ECFA meetings.
- Members are, in general, PhD students and postdocs, either with a non-permanent contract or with up to 8 years after obtaining the PhD. Up to three members can be nominated by each ECFA country and each major laboratory represented in ECFA for a mandate of 2 years, extendable with another 2 years. In general, the delegation from each ECFA country should have at least one PhD student and at least one postdoc. Nominations are to be endorsed by Plenary ECFA. Members are nominated by and assigned to the quota of the country they are hired at the moment they become member of the panel.
- Members act as individuals, but should be able to represent the views of early-career researchers in particle physics in the country from which they were nominated.
- From among the ECFA ECR Panel members, a delegation of up to five members is assigned by the panel as observers to Plenary ECFA meetings, and one member is assigned by the panel as observer to Restricted ECFA meetings.
- The ECFA ECR Panel would normally hold two plenary (tele-)meetings per year among its members.
- The activities of the ECFA ECR Panel are organised by a smaller group selected by the panel itself from among its members. To achieve their aims, the ECFA ECR Panel can proceed among others with regular meetings, topical working groups and studies related to the early-career researchers community in particle physics in ECFA countries.
- The ECFA ECR Panel can invite observers to its meetings, for example to seek adequate diversity among the participants to conduct its business.



#### European Committee for Future Accelerators





## Towards the installation of the ECFA ECR Panel

From: Jorgen D'HONDT Jorgen.DHondt@vub.be

Subject: ECFA Early-Career Researchers Panel - call for nominations

Date: 8 September 2020 at 10:56

Ce: Jorgen D'Hondt jodhondt@vub.ac.be, Carlos Lacasta Llacer carlos.lacasta@cern.ch

Dear ECFA members,

After our endorsement at the recent PECFA meeting (13 July), the inception of a permanent ECFA Early-Career Researcher (ECR) Panel is cited in the ECFA Newsletter #5 and the approved mandate features on our renewed website (https://ecfa.web.cern.ch, under organisation).

With a view to initiate the panel later this year, at this stage we call for nominations.

Members are, in general, PhD students and postdocs, either with a non-permanent contract or with up to 8 years after obtaining the PhD. Up to three members can be nominated by each ECFA country and each major laboratory represented in ECFA for a mandate of 2 years, extendable with another 2 years. In general, the delegation from each ECFA country should have at least one PhD student and at least one postdoc. Nominations are to be endorsed by Plenary ECFA. Members are nominated by and assigned to the quota of the country they are hired at the moment they become member of the panel.

Surely, each country will deploy different procedures to seeks candidates and finally to nominate up to three members. At the upcoming (remote) RECFA meeting on 9 October there will be an opportunity to hear about progress in each country.

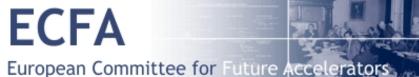
Nominations are to be communicated by RECFA members to the chair and the scientific secretary of ECFA by email, and should reach us by 16 November. This will allow us to propose the full list of nominations for endorsement to Plenary ECFA during its meetings on 19-20 November. Nominations should include the full name, function, affiliation and email address of the nominee.

ECFA strongly values the importance of diversity in all its actions, and we are looking forward to adhering to this basic principle among the members of the ECFA ECR Panel.

Thank you very much in advance. With kind regards,

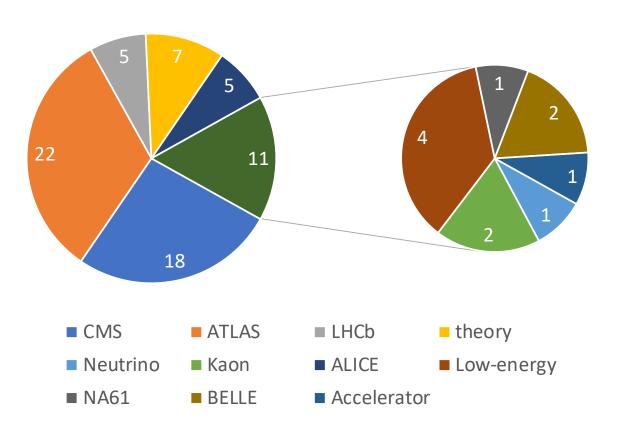
Jorgen D'Hondt Carlos Lacasta

- Call for nominations on 8 Sept to ECFA.
- Nominations are to be communicated by RECEA members to the chair and the scientific secretary of ECFA by email, and should reach us by 16 November.
- At the RECFA meeting on 9 Oct, a round table was organised to inform each other about progress in each country.



#### **Nominations received**

#### Overview of research orientation



- From 25 countries (out of 28) we collected a total of 67 nominations.
- As well we received nominations from CERN, Frascati and DESY as major laboratories represented in ECFA.
- The full list is attached to the agenda.

PECFA to endorse the membership of the ECFA ECR Panel



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- 5. Progress with the Detector R&D Roadmap → topic of a dedicated presentation tomorrow
- 6. Joint EPS-HEPP and ECFA sessions (July 2021, Hamburg)
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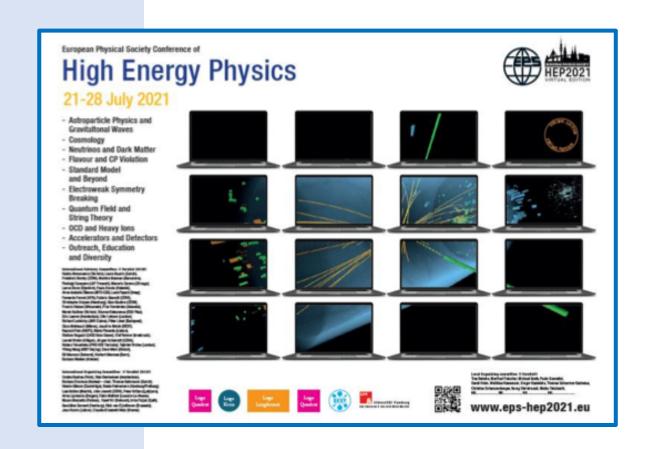


#### Joint EPS-HEPP and ECFA session

#### **EPS-HEPP 2021 conference**

26-30 July 2021
Virtual Edition
Hosted by DESY & University of Hamburg
<a href="http://eps-hep2021.eu">http://eps-hep2021.eu</a> (being prepared)

- The timetable for the conference is being adapted to that for an online meeting.
- A joint ECFA-EPS session of around 2 hours is envisaged on the topic of "Technology Roadmaps" including Computing, Software, Detectors and Accelerators.
- Aim to make public at that occasion the final Detector R&D Roadmap.





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### Physics, Experiment & Detector studies towards a Higgs Factory

- The prime vision formulated in the European Strategy for Particle Physics for a collider beyond the HL-LHC is to prepare for an e<sup>+</sup>e<sup>-</sup> Higgs Factory. At this stage, the Strategy did not make a final choice which Higgs Factory will emerge among the options being prepared by the community.
- From the Terms of Reference of ECFA:
  - "Long-range planning of European high-energy facilities accelerators, large-scale facilities and equipment adequate for the conduct of a valid high-energy research programme by the community of physicists in the participating countries and matched to the size of this community and to the resources which can be put at the disposal of high-energy physics by society. Duplication of similar accelerators should be avoided and international collaboration for the creation of these facilities should be encouraged if essential and efficient for attaining the purpose."
- In several countries, actions are being taken to address this, for example by the creation of a national forum for research at Future e<sup>+</sup>e<sup>-</sup> Higgs Factories and/or Future Colliders to work together, e.g. to seek synergies.
- The Strategy discussion is behind us, and we should now focus on getting things done!



### Physics, Experiment & Detector studies towards a Higgs Factory

### Support for and Acknowledgement of a series of PED@HF workshops

PED@HF – Physics, Experiments and Detector studies at Higgs Factories

ECFA acknowledges the need for the experimental and theoretical communities involved in Physics studies, Experiment designs and Detector technologies at future Higgs Factories to gather. ECFA supports a series of workshops with the aim to share challenges and expertise, to explore synergies in their efforts and to respond coherently to this priority in the European strategy for particle physics.

#### Setting up an International Advisory Committee (IAC) was agreed to be the next step.

This will involve some RECFA members and European leaders of Future Colliders with a mandate to setup a Program Committee (PC) that would develop a program to respond coherently to the Higgs Factory priority in the ESPP.



## Physics, Experiment & Detector studies towards a Higgs Factory

- In initial contacts with (most of the) leaders of the future Higgs Factories, enthusiasm and support was noted to explore synergies and for such a series of workshops.
- From the formulated vision, more concrete objectives for the program are to emerge from the discussions within the IAC.
- Initial thoughts formulated at our last RECFA meeting:
  - Awaiting decisions for e<sup>+</sup>e<sup>-</sup> Higgs Factories, the objective is to identify synergies in detector R&D and physics analysis methodologies (experimental and theoretical) in order to make efforts applicable/transferable to more Higgs Factories, where relevant and possible.
  - Towards potentially joint research programs for detector R&D and physics for Higgs Factories.
- Accordingly, RECFA is finalizing the process to develop the membership of the IAC to further the
  discussion with the objective to identify synergies and to define concrete ways how to pursue
  them.



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- 5. Progress with the Detector R&D Roadmap
- Joint EPS-HEPP and ECFA sessions (July 2021, Hamburg)
- 7. Concrete exploration on Physics, Experiments and Detectors @ HiggsFactories
- 8. Major laboratories represented in RECFA − proposal → this morning approved by RECFA
- 9. New and renewed ECFA members
- 10. ECFA schedule for 2021



### Major laboratories represented in ECFA

# Extract from the ECFA Terms of Reference (ECFA/81/52/Rev.5, 16 November 2017)

#### **6.2 RESTRICTED ECFA**

Restricted ECFA is composed of one member per participating country, confirmed every three years and generally appointed for at most two three-year periods. The <u>Director-General of CERN</u>, the <u>Director of the Frascati National Laboratory</u> and the <u>Director for Particle Physics at DESY</u> are ex-officio members. The CERN Director responsible for research is invited, and representatives of national or international laboratories or organizations which are of importance for ECFA's activities can also be invited.



# Major laboratories represented in ECFA

The slot for the three laboratories (CERN, DESY, Frascati) appeared in 2009. Before that time only CERN and DESY were represented in RECFA. Probably because there were running particle physics experiments in these labs at that time.

These laboratories report during regular RECFA and Plenary ECFA meetings.

ECFA opted at the last Plenary ECFA meeting to revisit the list.



# **Applications received**

- Applications received from
  - IJCLab: <a href="https://www.ijclab.in2p3.fr/en/home/">https://www.ijclab.in2p3.fr/en/home/</a>
     Laboratoire de Physique des 2 infinis Irene Joliot-Curie
  - IRFU: <a href="http://irfu.cea.fr/en/">http://irfu.cea.fr/en/</a>
     Institute of Research Into the Fundamental Laws of the Universe
- Following the discussion at the previous RECFA meeting on 9 Oct, a small task force was created with a view to prepare a proposal by today, and we were asked to consider also alternatives for the liaison between major laboratories and ECFA.
- Task Force: Stan Bentvelsen, Marko Mikuz, Peter Levai, Carlos Lacasta, Jorgen D'Hondt

The balanced proposal came along in consultation with: Joachim Mnich (DESY), Antonio Zoccoli (INFN), Pierluigi Campana (INFN), Achille Stocchi (IJCLab), Anne Isabelle Etienvre (IRFU), Ursula Bassler (CERN Council), Fabiola Gianotti (CERN DG), Lenny Rivkin (LDG chair)

November 19th, 2020 Report from ECFA chair Many thanks to all!



# **Current organization in brief**

- Plenary ECFA: representing the European particle physics community
- Restricted ECFA:
  - chair and scientific secretary (ex-officio if not country delegate)
  - one delegate per country and one representative of CERN
  - ex-officio: Director-General of CERN, the Director of the Frascati National Laboratory and the Director for Particle Physics at DESY
  - o invited: Director Research and Computing of CERN
  - observers: EPS-HEPP board chair, APPEC chair, NuPECC chair, Russian Federation



# **Guiding thoughts emerging from the Task Force**

- ECFA works as a bottom-up community committee and has an advisory role
- In addressing the ESPP it is important for the community to hear frequently about the status and plans of major ECFA-related laboratories
  - Quote from the ESPP: "The European organisational model centred on close collaboration between CERN and the national institutes, laboratories and universities in its Member and Associate Member States is essential to the enduring success of the field. ... The particle physics community must further strengthen the unique ecosystem of research centres in Europe."
- A close relation between ECFA and these laboratories is essential for the long-range planning of particle physics in Europe, i.e. strengthen overlap but not duplicate efforts
- With its organisation, ECFA can
  - facilitate the communication from these laboratories to the community through its Plenary ECFA meetings and ECFA Newsletters,
  - provide community information to the lab directors through its regular country visits
- Keep the agenda of RECFA and PECFA meetings manageable



# Definition of "Major ECFA-related laboratories"

- The special role of CERN is recognised.
- Several laboratories in Europe are essential for the implementation of the ESPP.
  - From the ESPP: "The National Laboratories referred to in the Strategy are large and medium-sized infrastructures in Europe, which are operated, managed and financed by the respective national authorities. They collaborate, together with research institutes and universities, in large programmes at CERN and in activities of interest for this Strategy, performed locally and at other large laboratories."
- LDG: European "Lab Directors Group" (10 labs)
  - o CERN, CIEMAT, DESY, IRFU, IJCLAB, NIKHEF, LNF, LNGS, PSI, STFC-RAL
  - o lab-to-lab communications with a view to address together the ESPP
  - current chairperson: Lenny Rivkin (PSI)
- I was informed that the LDG is in the process of formalising their mandate and membership, therefore, at this stage, ECFA can consider the LDG membership for its list of "major ECFA-related laboratories" and its chair as a representative of LDG



# Proposal to update our organisation

- Establishing a close relation between ECFA and the major laboratories: at the occasion of Plenary ECFA meetings (e.g. at CERN in November), the list of "major ECFA-related laboratories" will be invited to join a dedicated RECFA meeting with an agenda defined by the chairs of ECFA and LDG
- Representation of all labs: "major ECFA-related laboratories" represented by the LDG chair in other RECFA meetings (similarly, we invite the LDG to reflect on the ECFA chair representing ECFA in the LDG)
- Community-to-Lab communication: the executive heads of the list of "major ECFA-related laboratories" will be invited to join the Open Sessions during the RECFA country visits including the post-meeting discussion in general on Friday afternoon
- Lab-to-Community communication: the executive heads of each of these "major ECFA-related laboratories" will be invited to join the PECFA meetings and will have a standing slot in the agenda to frequently present their lab status to PECFA, including a contribution to the ECFA Newsletter



# Proposal to update our organisation

- Plenary ECFA: representing the European particle physics community
  - invited: executive heads of the "major ECFA-related laboratories"
- Restricted ECFA:
  - chair and scientific secretary (ex-officio if not country delegate)
  - one delegate per country and one representative of CERN
  - o ex-officio: Director-General of CERN, LDG chair
  - invited: Director Research and Computing of CERN
  - o observers: EPS-HEPP board chair, APPEC chair, NuPECC chair, Russian Federation
  - o invited for dedicated meetings: executive heads of the "major ECFA-related laboratories"
- LDG: European Lab Directors Group (10 labs), ECFA chair → not for us to decide



# Proposal to update our organisation

Following the RECFA approval, I ask PECFA to endorse this update

- Plenary ECFA: representing the European particle physics community
  - invited: executive heads of the "major ECFA-related laboratories"
- Restricted ECFA:
  - chair and scientific secretary (ex-officio if not country delegate)
  - one delegate per country and one representative of CERN
  - o ex-officio: Director-General of CERN, LDG chair
  - invited: Director Research and Computing of CERN
  - observers: EPS-HEPP board chair, APPEC chair, NuPECC chair, Russian Federation
  - o invited for dedicated meetings: executive heads of the "major ECFA-related laboratories"
- LDG: European Lab Directors Group (10 labs), ECFA chair → not for us to decide



# **Topics for today**

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- 2. JENAA: WG Diversity & WG Recognition
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#### New and renewed members

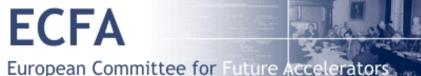
					Colu
Country	Name First Name		Tittle	Tittle email	
France					
Leaving	Boumedienne	Djamel	Dr	<u>Djamel.Boumediene@cern.ch</u>	Р
Endorsement	Delmastro	Marco	Dr	marco.delmastro@lapp.in2p3.fr	Р
Finland					
Renewal	Lassila-Perini	Kati	Prof	Katri.Lassila-Perini@cern.ch	R
Italy					
Leaving	Nappi	Eugenio	Dr	eugenio.nappi@ba.infn.it	P
Leaving	Falciano	Speranza	Dr	SPERANZA.FALCIANO@ROMA1.INFN.IT	Р
Leaving	Pastrone	Nadia	Dr	nadia.pastrone@to.infn.it	Р
Endorsement	Bettoni	Diego	Dr	diego.bettoni@fe.infn.it	Р
Endorsement	Cobal	Marina	Prof	marina.cobal@cern.ch	Р
Endorsement	Campana	Pierluigi	Dr	pierluigi.campana@Inf.infn.it	Р
Bulgaria	·	•	•		
Leaving	Litov	Leander	Prof	LITOV@PHYS.UNI-SOFIA.BG	Р
Leaving	Temnikov	Petar	Prof	PETAR.TEMNIKOV@GMAIL.COM	Р
Endorsement	Bogomilov	Mariyan	Prof	marian@phys.uni-sofia.bg	Р
Endorsement	Pavlov	Borislav	Prof	pavlov@phys.uni-sofia.bg	Р
Spain	•	•	•		•
Leaving	Lacasta	Carlos	Dr	carlos.lacasta@ific.uv.es	R
Endorsement	Martinez	Celso	Prof	mrivero@ifca.unican.es	R
Norway	•	•	•		
Renewal	Read	Alex	Prof	a.l.read@fys.uio.no	R
Renewal	Adli	Erik	Prof	erik.adli@fys.uio.no	Р
Poland	•	•			
Leaving	Lesiak	Tadeusz	Prof	tadeusz.lesiak@ifi.edu.pl	R
Endorsement	Łagoda	Justyna	Prof	justyna.lagoda@ncbj.gov.pl	R
United Kingdom		, ,		1	
Leaving	Glover	Nigel	Prof	E.W.N.GLOVER@DURHAM.AC.UK	Р
Renewal	Boogert	Stewart	Prof	Stewart.Boogert@rhul.ac.uk	R
Renewal	Klein	Max	Prof	mklein@hep.ph.liv.ac.uk	Р
Renewal	Burrows	Phil	Prof	P.BURROWS@physics.ox.ac.uk	Р
Endorsement	Bortoletto	Daniela	Prof	daniela.bortoletto@physics.ox.ac.uk	Р
Endorsement	Farrington	Sinead	Prof	sinead.farrington@ed.ac.uk	P
Endorsement	Wing	Matthew	Prof	m.wing@ucl.ac.uk	P

#### **ECFA** members

outgoing & incoming renewed

for endorsement by Plenary ECFA

Announced at our previous meeting:
Towards an update of their delegation,
the UK revisits its procedures to nominate
ECFA members, with an extension from 4
to 6 members in PECFA. At our previous
PECFA meeting, I informed PECFA that we
would welcome their proposal in
November.



#### New and renewed members

Country	Name	First Name	Tittle	e email	Colu
France					
Leaving	Boumedienne	Djamel	Dr	<u>Djamel.Boumediene@cern.ch</u>	Р
Endorsement	Delmastro	Marco	Dr	marco.delmastro@lapp.in2p3.fr	Р
Finland					
Renewal	Lassila-Perini	Kati	Prof	Katri.Lassila-Perini@cern.ch	R
Italy					
Leaving	Nappi	Eugenio	Dr	eugenio.nappi@ba.infn.it	P
Leaving	Falciano	Speranza	Dr	SPERANZA.FALCIANO@ROMA1.INFN.IT	Р
Leaving	Pastrone	Nadia	Dr	nadia.pastrone@to.infn.it	Р
Endorsement	Bettoni	Diego	Dr	diego.bettoni@fe.infn.it	P
Endorsement	Cobal	Marina	Prof	marina.cobal@cern.ch	Р
Endorsement	Campana	Pierluigi	Dr	pierluigi.campana@Inf.infn.it	Р
Bulgaria					
Leaving	Litov	Leander	Prof	LITOV@PHYS.UNI-SOFIA.BG	Р
Leaving	Temnikov	Petar	Prof	PETAR.TEMNIKOV@GMAIL.COM	Р
Endorsement	Bogomilov	Mariyan	Prof	marian@phys.uni-sofia.bg	Р
Endorsement	Pavlov	Borislav	Prof	pavlov@phys.uni-sofia.bg	Р
Spain					
Leaving	Lacasta	Carlos	Dr	carlos.lacasta@ific.uv.es	R
				<u></u>	
Norway	·		•		
Renewal	Read	Alex	Prof	a.l.read@fys.uio.no	R
Renewal	Adli	Erik	Prof	erik.adli@fys.uio.no	Р
Poland					
Leaving	Lesiak	Tadeusz	Prof	tadeusz.lesiak@ifj.edu.pl	R
Endorsement	Łagoda	Justyna	Prof	justyna.lagoda@ncbj.gov.pl	R
United Kingdom			•		
Leaving	Glover	Nigel	Prof	E.W.N.GLOVER@DURHAM.AC.UK	Р
Renewal	Boogert	Stewart	Prof	Stewart.Boogert@rhul.ac.uk	R
Renewal	Klein	Max	Prof	mklein@hep.ph.liv.ac.uk	Р
Renewal	Burrows	Phil	Prof	P.BURROWS@physics.ox.ac.uk	Р
Endorsement	Bortoletto	Daniela	Prof	daniela.bortoletto@physics.ox.ac.uk	Р
LITAGESCHICH				sinead.farrington@ed.ac.uk	P
Endorsement	Farrington	Sinead	Prof		



It gives me the greatest pleasure to wholeheartedly thank

Carlos Lacasta Llácer

for his commitment as Scientific
Secretary of ECFA 2018-2020 and
the wonderful three years together
in this unique roller coaster.
A job well done!



# **Topics for today**

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#### The schedule for ECFA in 2021

Depends on the evolution of COVID across Europe. In consultation with the relevant RECFA delegates, the 2021 slots keep the initial sequence as planned in 2020

- March: France RECFA visit → 12-13 March
- April: Ukraine RECFA visit  $\rightarrow$  9-10 or 16-17 April
- May: Denmark RECFA visit → 28-29 May

impact of COVID to be discussed in January 2021

July 24: online EPS-HEPP conference (July 26-30): RECFA and PECFA meeting

October: Serbia > 8-9 October

October: ICFA Seminar at Berlin (on invitation only), 4-7 Oct 2021, https://icfa2021.desy.de

November 18-19: RECFA and PECFA at CERN → confirmed



# ... one more item



# Important topic: election of the next ECFA chair

- Following the schedule and procedures outlined, and noted at our last PECFA meeting, an election was organised by the ECFA chair election committee (M. Dam, P. Sphicas, P. Stríženec) during the RECFA meeting on 9 Oct for the next ECFA chairperson with a term from 1 Jan 2021 until 31 Dec 2023.
- Four candidates (in alphabetical order):
  - Gregorio Bernardi, LPNHE-Paris, CNRS/IN2P3 and Sorbonne University, France
  - Lucia di Ciaccio, LAPP-Annecy, CNRS-IN2P3 and University Savoie Mont Blanc, France
  - Karl Jakobs, University of Freiburg, Germany
  - Claude Vallee, CPPM-Marseille, CNRS/IN2P3 and Aix-Marseille University, France
- Karl Jakobs received more than 50% of the votes in the first round hence he is elected as the next ECFA chair.

  PECFA is asked to endorse the election of Karl Jakob

PECFA is asked to endorse the election of Karl Jakobs as ECFA chair for the term 2021-2023



# In closing...



#### Our final slide to ECFA





Realizing our scientific ambitions must be done in close collaboration with society as a whole. There will have to be clear stories that fascinate society and these should be at our finger tips when we reach out. Accordingly, we invited RECFA members to share their short elevator pitches as a synopsis of longer stories intended to foster strong support for particle physics research. In the absence of a pleasant ECFA dinner at CERN on this occasion, Carlos and I would be delighted to inspire our research community to further develop similar elevator pitches and comprehensive stories, and above all to share them with each other.

"Over the past 100 years, we've learned what atoms look like on the inside, and that knowledge has radically changed our civilization in ways that even the best science fiction novels couldn't predict. Likewise, we cannot predict the impact of our current and future innovations for particle colliders, but we have no doubt that they will, in turn, change the lives of our children's children."

Carlos Lacasta Llácer & Jorgen D'Hondt



# Develop your elevator pitch and comprehensive story





"The 21st century will lead to breath-taking developments and advances in accelerator and detector technologies to better analyze the cosmos at its smallest scales, and the journey of understanding nature for thousands of years will continue with great power."

Mehmet Zeyrek

"Throughout human history, fundamental questions on the structure of matter, space and time have inspired philosophers, scientists and artists alike. Since the beginning of the 20th century, curiosity-driven research has provided many answers on these age-old questions and dramatically changed our view on the natural world. This endeavour continues in many different directions, aiming to get to the most fundamental levels of understanding and addressing new mysteries that careful observation of nature is revealing to us."

Thomas Gehrmann

"Accelerator technology was driven by the needs of fundamental research, and it has become crucial also for addressing urgent societal needs. In the present pandemic light sources worldwide were readily available for studies on the Corona virus."

Mike Seidel

"Fundamental Science is our best instrument to build a brighter future. It rests on the efforts of thousands man and women from all over the world, united with the unique purpose of understanding how our Universe works; it will give us a deeper insight on its yet undiscovered mysteries and consolidate the hope for a world of peace and cooperation."

Fabio Bossi



# Develop your elevator pitch and comprehensive story





"Particle physics as a fundamental study of nature offers a uniquely powerful context for inspiring and motivating the citizens of tomorrow. Tapping into CERN's brand and the openly published, cutting-edge results and data of the experiments as educational resources for teachers and students around the world is an opportunity to be pushed ever further in the global effort to create a better society with an appreciation for science."

Kati Lassila-Perini

"Designed, constructed and operated by thousands of scientists and engineers. Engineering Colossuses of tens of metres yet built precisely to a fraction of a millimeter. Thousands of tonnes of meticulously instrumented material built to measure products of highest energy collisions accessible to humankind in conditions resembling those of the Big Bang. With hundred million individual sensors per square metre close to the collision point, exposed for ten years to a radiation environment no human would survive for twenty minutes. Metres of lead and steel to stop the most energetic particles in order to measure their energy. Capable of capturing an image of the sway of thousands of collision products, with a tiny slate possibly emerging from a massive particle that weighs thousands of hydrogen atoms and lives an unthinkable trillionth of a trillionth of a second. Acquiring data from the detector implies handling in excess of a billion collisions per second and sorting out the interesting processes in real time. In ten years of operation, collecting more than ten thousand trillion of collisions, we were able to discover the elusive Higgs boson and measure its properties. Yet the majority of the contents of the Universe, the Dark side of it, is still holding up to its name. To unveil it, a refurbishment of detectors with the aim of coping with higher energy and even more collisions is in progress."

Marko Mikuz ("Particle Physics Detectors – Contemporary Cathedrals of Science" ... an elevator pitch to reach the top floor)

"The history of particle physics is one of advancement and success. Textbooks are filled and techniques spin off into broader society. Somebody reading this is likely to be doing so because particle physicists needed a way to transfer data over the computers; the World Wide Web was therefore born. Some say we'll reach an ultimate "theory of everything". As a scientist, I hope not. As the saying goes, its better to travel than to arrive; I prefer a journey full of surprises and benefits for scientists and society alike."

David Milstead



# Thank you for your attention

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