



Report on ECFA activities

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 - ▶ Decides on all ECFA activities,
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 - ▶ Approves final reports of working groups and terminates their activities,
 - ▶ Decides on admission of new observers,
 - ▶ Makes recommendations to outside organisations,
 - ▶ Number of members commensurate to the country size (Sweden: 3),
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- ▶ **Restricted ECFA:**
 - ▶ Assists and advises the Chair and the Secretary in the running of ECFA,
 - ▶ Acts as the communication channel to each participating country, its physics community and national institutes and authorities,
 - ▶ Only one member per country (Sweden: A. Ferrari).

ECFA panels

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- ▶ **ECFA Early-Career Researchers Panel:**
 - ▶ Discusses all aspects that contribute in a broad sense to the future of the research field of particle physics.
 - ▶ Swedish members: Christina Dimitriadi, Magdalena Vande Voorde and Erik Wallin.

RECFA country visits

These are aimed at gathering reports from the funding bodies and from the high-energy physics community about their scientific activities... and their concerns.

In turn, this gives an opportunity to highlight to the funding agencies and science ministry what actions should be taken to support the community.

▶ Country visits in 2024:

- ▶ Switzerland (PSI): March 8-9
- ▶ Sweden (Lund): May 16-17
- ▶ UK (London): September 13-14
- ▶ Serbia (Belgrade): Nov 29-30

▶ Upcoming visits:

- ▶ Bulgaria (Sofia): Mar 7-8, 2025
- ▶ Finland (Helsinki): May 30-31, 2025
- ▶ Belgium (Brussels): September 12-13, 2025
- ▶ Turkey in November 2025, TBC.

RECFA visit to Sweden

- ▶ <https://indico.cern.ch/event/1348498>
- ▶ **Full day of presentations** covering a wealth of scientific activities:
 - ▶ LHC experiments and their upgrades, future colliders, theory, computing, ESS, astroparticle and nuclear physics, outreach, ECR perspectives...
- ▶ **Satellite events:**
 - ▶ An in-person meeting between the CERN Director General, the Swedish Minister of Education and the VR Director General;
 - ▶ Two ESS visits for RECFA delegates;
 - ▶ A young Nordic future-collider day (<https://indico.cern.ch/event/1373946>);
 - ▶ Outreach events in Lund and Malmö.
- ▶ **Overall a successful event!** Thanks to everyone who contributed...

Time	Topic	Speaker
09:00	Welcome	Speaker: Prof. Erik Hellander (Lund University)
09:15	Funding of research and infrastructure by Vennerbergstiftelsen (20+)	Speaker: Prof. Anders Henriksson (Vennerbergstiftelsen)
09:45	CERN-related research in Sweden, incl. industrial return (20+)	Speaker: Göran Strandberg (Swedish Research Council)
10:00	LHC experiments: current runs (20+)	Speaker: Jochen Schaefer (CERN/University of Strasbourg)
10:15	LHC experiments: future runs (20+)	Speaker: Jochen Schaefer (CERN/University of Strasbourg)
10:30	Detector R&D activities at HL-LHC and beyond (20+)	Speaker: Riccardo Bellotti (CERN)
10:45	Future colliders (20+)	Speaker: Federico Delogu (Swedish Research Council)
11:00	Computing (20+)	Speaker: Thomas Schwan (CERN)
11:15	Astroparticle physics (20+)	Speaker: Chao Zhang
11:30	Nuclear physics (20+)	Speaker: Judith Gruber (Lund University)
11:45	Theory - high-energy physics (20+)	Speaker: Jochen Schaefer (CERN/University of Strasbourg)
12:00	Theory - astroparticle physics (20+)	Speaker: Alessandro Chiodini (University of Bologna, INFN)
12:15	Astroparticle physics (20+)	Speaker: Michelangelo D'Adamo (University of Turin)
12:30	Particle physics with ESS (20+)	Speaker: Valentin Guieu (CERN)
12:45	Education and outreach (20+)	Speaker: Christiane Dorn (ESS/University of Lund)
13:00	Perspectives from young scientists (20+)	Speakers: Christiane Dorn (ESS/University of Lund), University of Lund, Dr. Erik Wallin (Lund University), Magdalena Wroblewska (University of Lund)
13:00	ESS/ECR outreach	Speaker: ESS/ECR outreach

RECFA's feedback to Sweden (1)

- ▶ RECFA congratulates the Swedish particle physics community on their fruitful and highly visible participation in the LHC, including important contributions to the operation of the experiments and the related software development and data analysis.
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- ▶ RECFA recommends that the funding framework for infrastructures be reviewed to better adapt it to the needs of high-energy physics projects.
- ▶ RECFA is very supportive of the current initiative to form a national organisation for accelerator-based research and instrumentation.

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- ▶ RECFA is impressed by the ongoing development and construction of the European Spallation Source (ESS) in Lund, offering new opportunities for several scientific fields.
- ▶ RECFA is pleased by important and internationally visible participation of the Swedish physics community in other areas, such as astroparticle physics and nuclear physics.

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- ▶ The conveners of 9 physics groups have been selected and endorsed by the CERN Council in September 2024. The scientific secretaries are being appointed from the ECR community.
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- ▶ The ESPP Open Symposium will take place in Venice on June 23-27, 2025.
- ▶ A "Briefing Book" will be prepared by the Physics Preparatory Group (PPG) during a drafting session scheduled on December 1-5, 2025 and will be submitted to the CERN Council in January 2026.

European Strategy for Particle Physics

ESPPU Timeline



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- ▶ A first town-hall meeting to discuss the input from Sweden will be organised in Stockholm on January 9, 2025... **Mark your agendas.**
 - ▶ Organisation committee: R. Brenner (ESG & UU), A. Ferrari (RECFA & UU), S. Stranberg (Stockholm), D. Silvermyr (Lund).

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- ▶ More meetings should follow:
 - ▶ spring 2025 to discuss EPPS inputs (deadline for comments on May 26),
 - ▶ autumn 2025 after the release of the Briefing Book (deadline for comments on November 14).

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Conclusion

- ▶ ECFA plays an important role in shaping the future of accelerator-based high-energy physics research.
- ▶ The update of the European Strategy for Particle Physics has started and 2025 will be a busy, but very interesting, year for ECFA and our scientific community.
- ▶ RECFA visited Sweden in May 2024 and recently provided its feedback to the ministry and VR. Overall very positive, however the funding scheme of large-scale international infrastructures remains a major concern.

