

Progress report

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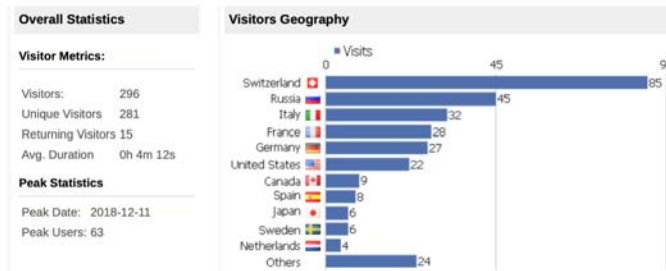
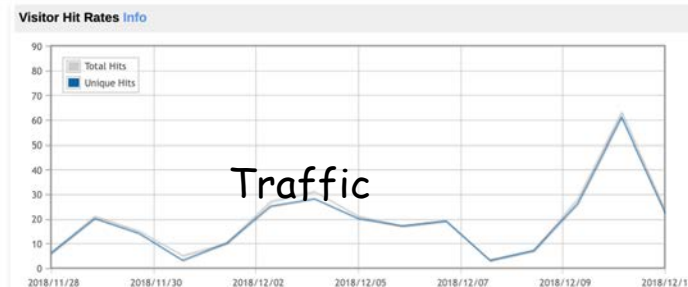


- Input submission
- Calendar for PPG
- Open Symposium
- European Strategy Group
- Calendar for ESG

Input - status report

Total number of submissions (13/12/2018 at 20:00)

#	Contact	Title
1	1 Robert Shrock	Searches for Sterile Neutrinos at CERN: Contribution to European Strategy for Particle Physics
2	2 Philip Yock	Newtonian Test of the Standard Model
3	3 Roy Aleksan	TIARA contribution to the European Strategy of Particle Physics
4	5 Maurizio Pierini	A European Data Science Institute for Fundamental Physics
5	6 Mięczysław Krasny	Gamma Factory for CERN
6	7 Brigitte Cros	Advanced LinEar collider study GROup (ALEGRO) Input
7	8 Francois Richard	DM follies and the 'Krisis' of particle physics
8	9 Sergei Gninenko	Prospects for exploring the Dark Sector physics and rare processes
9	10 Abdel Nasser Tawfik	Implication of results on transport and viscous properties of QGP c
10	11 Bostjan Golob	The Belle II experiment at SuperKEKB: input to the European Partic
11	12 Andrei Golutvin	The SHiP experiment at the SPS Beam Dump Facility"
12	13 Marek Gazdzicki	Proposal from the NA61/SHINE Collaboration for the update of the
13	14 Anatoly Petrukhin	Complex NEVOD for multi-component investigations of cosmic ray



Calendar (Physics Preparatory Group)

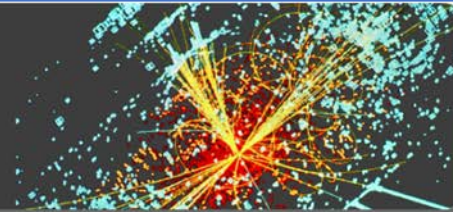
- Input submission will be closed at 23:59 CET December 18th 2018
- January 9th 2019 - PPG video meeting to review/assign to thematic groups the submitted inputs
- Around January 10th 2019 - open access to European Strategy Group
- Around mid-January 2019 - open access to public
- January 21st 2019 - PPG meeting at CERN to finalize the programme for the Open Symposium, including invited speakers/experts; decide on follow-up video meetings
- May 12th 2019 - PPG meeting in Granada, before the Symposium
- May 17th 2019 - PPG debriefing meeting in Granada, right after the Symposium
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- ECFA/EPSC-HEPP meeting July 13th 2019 in Ghent
- Deliver Briefing Book for September 2019

Preparations of the Open Symposium

[Web page for the Open Symposium in Granada](#)
Please register

CERN Council Open Symposium on the Update of
European Strategy for Particle Physics

13-16 May 2019 - Granada, Spain



List of participants

24 participants

Format of the Open Symposium

Monday

Morning

Plenary session

“Where do we stand”
(still to be discussed)

Afternoon

Parallel sessions

B1 - Electroweak physics
B2 - Flavour physics and
CP violation
B3 - Neutrinos
B4 - Accelerator science
and technology

Tuesday

Morning

Parallel sessions

B5 - BSM at colliders
B6 - Strong interactions
B7 - Detectors and
computing
B8 - Dark matter and dark
sector

Afternoon

Parallel sessions

(possible merging)
B1 - Electroweak physics
B2 - Flavour physics and
CP violation
B3 - Neutrinos
B4 - Accelerator science
and technology

Wednesday

Morning

Parallel sessions

(possible merging)
B5 - BSM at colliders
B6 - Strong interactions
B7 - Detectors and
computing
B8 - Dark matter and dark
sector

Afternoon

Plenary session

“Future facilities”

Thursday

Plenary session

Summary Reports (8)
Close-out

ESG meeting

Proposed Input Themes and PPG/ESG assignments

- Large experiments and projects - **PPG**
- National road maps - **ESG**
- Accelerator Science and Technology - **Caterina Biscari and Lenny Rivkin**
- Beyond the Standard Model at colliders (present and future) - **Gian Giudice (th) and Paris Sphicas (exp)**
- Dark matter and dark sector (accelerator and non-accelerator dark matter, dark photons, hidden sector, axions) - **Marcela Carena (th) and Shoji Asai (exp)**
- Instrumentation and computing - **Xinchou Lou (exp) and Brigitte Vachon (exp)**
- Electroweak physics (physics of the W, Z, H bosons, of the top quark, and QED) - **Keith Ellis (th) and Beate Heinemann (exp)**
- Flavour Physics and CP violation (quarks, charged leptons and rare processes) - **Belen Gavela (th) and Antonio Zoccoli (exp)**
- Neutrino physics (accelerator and non-accelerator) - **Stan Bentvelsen (astro-exp) and Marco Zito (exp)**
- Strong interactions (perturbative and non-perturbative QCD, DIS, heavy ions) - **Krzysztof Redlich (th) and Jorgen D'Hondt (exp)**
- Other (communication, outreach, strategy process, technology transfer, individual contributions,...) - **ESG**

There are 8 physics themes and 3 general ones. The large experiments/projects will be split among the physics themes.

Draft Proposal for plenary sessions

Monday - Plenary							
	9:00 - 9:10	Greetings		10	Wednesday Parallel	9:00 - 10:30	session
	9:10 - 9:20	Overview of Symposium		10		10:30 - 11:00	coffee break
	9:20 - 9:30	Goals of the Symposium		10		11:00 - 13:00	session
	9:30 - 10:00	Outcome of 2013 Strategy Update	25+5				
	10:00 - 10:30	Outstanding questions in particle physics	25+5			13:00 - 14:30	Lunch
	10:30 - 11:00	Coffee break		30			
	11:00 - 11:25	The American Perspective	20+5		Wednesday Plenary	14:30 - 15:00	Physics at hadron colliders
	11:25 - 11:50	The Asian Perspective	20+5			15:00 - 15:30	Challenges for energy frontier hh colliders
	11:50 - 12:15	ApPEC roadmap	20+5			15:30 - 16:00	Heavy ion physics
	12:15 - 12:40	NuPPEC long term plan					
	12:40 - 13:05	Education, Communication and Outreach	20+5			16:00 - 16:30	coffee break
	13:00 - 14:30	Lunch					
						16:30 - 17:00	Physics with fixed targets
Monday Parallel	14:30 - 16:00	session				17:00 - 17:30	Physics with ee colliders
	16:00 - 16:30	coffee break				17:30 - 18:00	Challenges for precision frontier ee colliders
	16:30 - 18:30	session				18:00 - 18:30	Physics with ep/eA colliders
						18:30 - 19:00	Challenges for high energy ep colliders

Thursday - summary reports from parallel sessions

To be discussed with PPG

European Strategy Group

Role of the ESG (section 3.2a of the CERN/3092/Rev.2)

- To establish a proposal for the periodic update of the medium- and long-term European Strategy for Particle Physics for submission to the Council for approval
- To draft the Strategy update proposal taking into account, inter alia, the scientific input submitted by the Physics Preparatory Group (drafting session in January 2020)
- To endorse the proposal by consensus prior to the submission to the Council for approval (March 2020)

This implies

- Revisiting the previous strategy update
- Proposing additional themes in support of (the realisation of) the scientific programme
- Forming working/discussion groups around selected themes for the current update
- Prioritising the scientific programme

First contact established November 26th 2018

Reminder of Organisational Matters discussed in 2013

In parallel to the discussion on scientific issues, ESG deals with organizational and other matters through discussions in working groups (WG)

During the 2013 Strategy update, 5 WGs were set up (see [Summary of the 2013 European Strategy Update](#)) to discuss recommendations for

1. WG1 - Mandate and organisational structure for the Council for the European Strategy and its implementation (to be handled by the President's Group);
2. WG2 - Organisational structure for European participation in global projects, including the role and definition of the National Laboratories and the CERN Laboratory in the European Strategy;
3. WG3 - Relations with external bodies, in particular EU-related;
4. WG4 - Knowledge and technology transfer, relations with industry;
5. WG5 - Outreach, education and communication

ESG Organisational Matters - proposal

Proposal by Strategy Secretariat of themes to be added to the ESG deliberations during the present Strategy update process

1. Interdisciplinary nature of research in particle physics (with the aim to promote accelerator science, detector R&D, computing and engineering in the physics community "au large") - to be added to the discussion on technology transfer and outreach/communication
2. Social and career aspects of the young generation in long time-scale projects - how to make the field attractive and to preserve expertise in all aspects of particle physics science
3. Sustainability and environment - whether/how to include criteria evaluating energy efficiency and carbon footprint of present and future projects

The ESG members were invited to comment and to propose other themes deemed important for the future of the community.

No input received, but no deadline provided
Reminder will be resent after December 18th with deadline

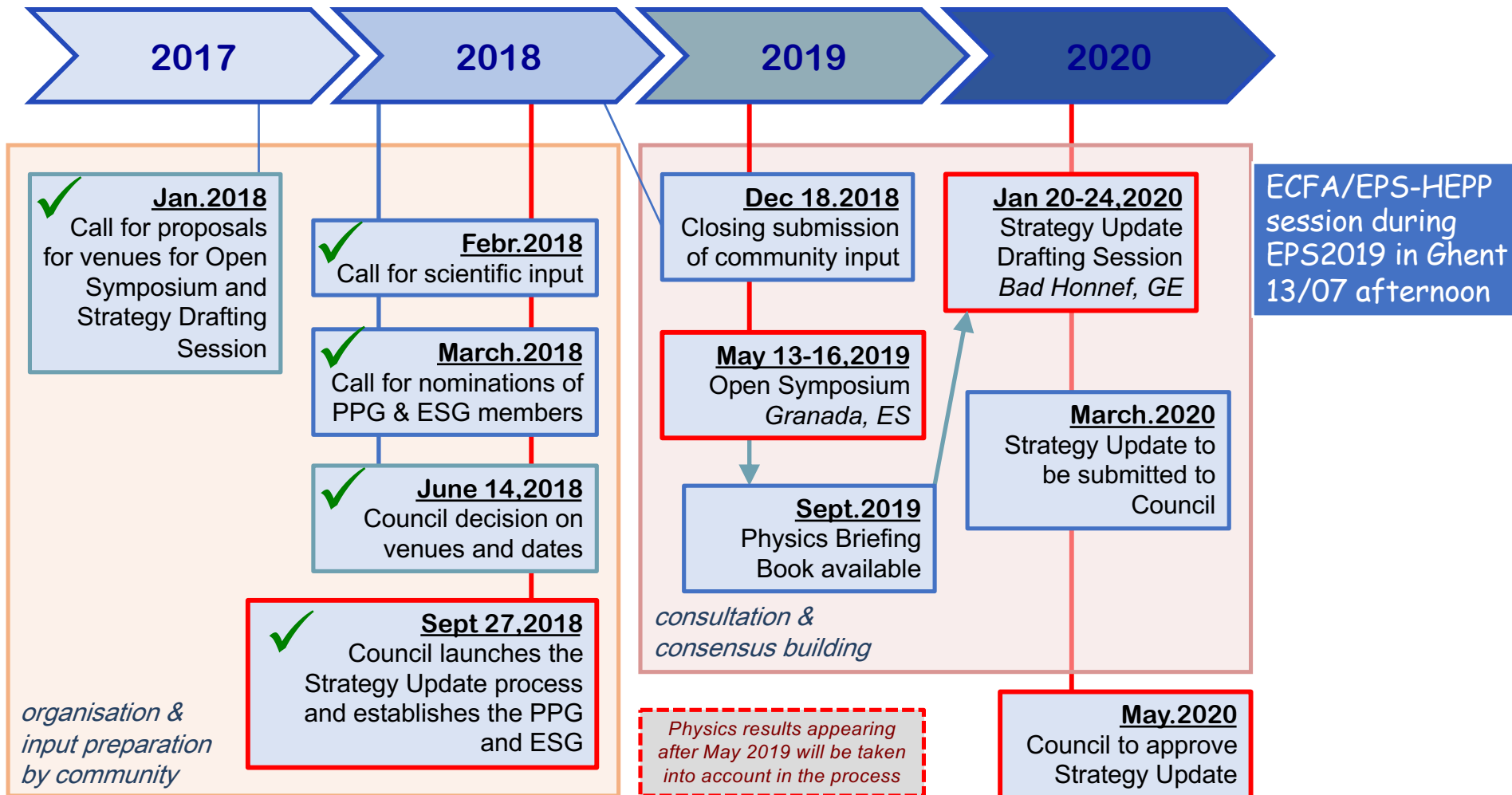
Proposal for ESG meetings

- First plenary meeting, Friday March 15, 2019, CERN - review of previous strategy update, converge on main themes for the present update and the mandates and chairs of the agreed upon working groups (to be partly prepared by email communication)

Subsequent plenary meetings for discussions and interim reports:

- Thursday May 16, Granada
- During Council weeks at CERN, in June 2019, September 2019, December 2019 - either Tuesday afternoon and/or Wednesday afternoon.
- Drafting Session - January 20-24, 2020 in Bad Honnef
- To be considered - plenary meeting at CERN in March 2020 to include comments of Council
- Working Group meetings as needed, to be organized by designated chairs of the agreed upon groups

EPPSU 2020 timeline



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*Gratitude to the Council Secretariat for all the support
in particular to Vedrana for all her effort
to get the webpages and the submission ready
on time*

Happy Holidays

