

CHIPP Board meeting

Welcome to the:

- Board members
- Honorary Board members
- Observers at the Board

New Board member:

Lesya Shchutska (ETHZ)

Agenda item 1: Agenda

- The final Agenda has been distributed on 4th February.
 - All documents have been made available via e-mail or on a confidential CHIPP internet page.
- **Agenda approved ?**

Agenda item 2: Proxy Votes

- The following Proxies have been designated:
 - Malte Hildebrandt (for *Stefan Ritt*)
 - Anna Sfyrla (for *Teresa Montaruli*)
 - Klaus Kirch (for *Christoph Grab*)
 - Michele Weber (for *HansPeter Beck*)
 - Leonid Rivkin (for *Olivier Schneider*)
 - Allan Clark (for *Giuseppe Jacobucci*)
 - Tatsuya Nakada (for *Aurelio Bay*)
 - Antonio Ereditato (for *Igor Kreslo*)

Agenda item 2: Apologies & Quorum

- The following apologies have been received:

Andreas Schopper, Hans Peter Beck, Bernd Krusche, Marc Türlér, Xavier Reymond, Philippe Mermod, Maurice Bourquin, Gino Isidori

- Board members with voting rights: 63
- Quorum (1/3 of Board): 21 votes, reached ?
14 presents + 8 proxy = 22 votes

Agenda item 3: Minutes of the last meeting

- Final draft minutes of the CHIPP Board 2017-03 (3 November 2017) have been made available on www.chipp.ch and with the other Board documents.

➔ **The Board is invited**

- **to approve** the minutes of the last meeting

Base: Art. 27, litt. a; simple majority

Agenda

DECISION ITEMS

4. Closure of the 2017 Accounts

for approval

- Annual Report 2017
- Annual Accounts 2017
- Auditor's Report

Proposal

Draft report

Accounts

Report

Discussion of the future CHIPP funding

[Tatsuya Nakada]

DISCUSSION ITEMS

5. Pillar 1 White Paper

for discussion

[Rainer Wallny]

6. Strategic workshops of 2018

for discussion

[Michele Weber]

7. Computing steering board

for discussion

[Christoph Grab]

8. Update of the CHIPP membership database

for discussion

[Tatsuya Nakada]

INFORMATION ITEMS

9. **News from CHIPP EB** [Tatsuya Nakada]
10. **ETC* membership** [Tatsuya Nakada & Gilberto Colangelo]
for discussion
11. **New member of the CHIPP Prize committee & CHIPPP Prize 2018** [Adrian Signer]
12. **Zuoz summer school information**
13. **FLARE Tables**
14. **News from the community**
15. **New professorships at CHIPP institutes: report from each institute**
16. **Next CHIPP Plenary and Board meetings**
17. **A.O.B.**
 - APPEC Report - Summary of the Launch Meeting [Teresa Montaruli]

Agenda item 4: Closure of the 2017 Accounts (1)

Annual Report 2017 (*distributed*)

- CHIPP's Annual Report is to be delivered to SCNAT and is thus structured along the SCNAT guidelines.

Annual Accounts 2017

- The ***Profit and Loss Statement*** (*distributed*) shows the expenditures and income of the Association for the year 2017 and the end result.
- The ***Balance Sheet*** (*distributed*) shows the change in assets between the end of 2016 and the end of 2017.
- The ***Independent Auditor's Report*** (*distributed*)

Agenda item 4: Closure of the 2017 Accounts (2)

Profit and Loss Statement 2017

- **Income: 151'930.– CHF**
 - CHIPP membership fees: 83'780.–
 - Contribution SCNAT: 21'400.– (for WinterSchool, IPPOG & Outreach)
 - Contribution for EPPCN: SERI: 15'000.– & CERN: 5'000.–
 - CHIPP Winter School: 27'150.–
- **Expenditure: 153'616. – CHF**
 - Salary administrated by UZH: 92'200.– (with 0.1 FTE for EPPCN)
 - Outreach, Schools, Conferences, Workshops: 49'496.–
 - SCNAT membership fees & IPPOG membership: 6'627.–
 - Prize money: 3'000.–
 - CHIPP meetings and administrative costs: 2293.–
- **Profit (+) / Loss (–): –1686. CHF**

Budget 2017: Approved vs Actual Cost

2016 2017

Total expenses	136'661	138'500	128'963
Membership fees	3'234	6'500	6'627
Membership in SCNAT	3'234	3'500	3'150
Membership in IPPOG	0	3'000	3'477
Schools & Conferences	30'633	15'000	14'446
CHIPP PhD School (parts from SCNAT)		12'000	14'446
PhD/PostDocs days	0		
Zuoz (parts from SCNAT)	10'000		
SCNAT)	18'633		
PSI 2016/RECFA visit 2016	2'000		
reserve	0	3'000	0
Communication & Outreach	21'116	31'000	26'041
Administrator employment EPPCN	15'000	20'000	15'000
Dialogue (parts from SCNAT)	6'116	10'000	10'400
EPPCN travel (CERN)	0	1'000	641
CHIPP Prize	3'000	4'500	3'000
Prize money	3'000	3'000	3'000
travel expenses	0	1'500	0
CHIPP Meetings	1'631	2'000	542
CHIPP Board Meetings	527	700	212
CHIPP EB Meetings	243	300	330
CHIPP Plenary (invited speakers, Administrator, secretariat)	861	1'000	
Operations	77'047	78'000	78'170
salary, social charges, pension fund	76'000	77'000	77'200
travel and other expenses	1'047	1'000	970
CHIPP website & Accounting	0	1'500	138

→ 7 CHF /member
 → 3000 € → 3477 CHF
 (400 active members)

Winter School

School Cost: 37781 CHF

Travel: 1315 CHF

10% Salary Admin

EPPCN from SERI (15000 CHF)

Fees: 24650 CHF

Travel: 5000 CHF (spent: 641 CHF)

Extra funding:

Dialogue : 13 articles B. Vogel

8000 (SCNAT) +

4000 (CHIPP) + 2500 (UZ)

(gain: 54CHF)

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10% Salary Admin
EPPCN from SERI (15000 CHF)

Travel: 5000 CHF (spent: 641 CHF)

Dialogue : 13 articles B. Vogel

2017 income

INCOME

Total income	133'430	125'000	127'280
contributions from CHIPP members	84'330	84'000	83'780
contribution from SCNAT	25'600	21'000	21'000
for CHIPP School		8'000	8'000
for Zuoz	8'000		
for Workshops (SWAPS / SWHEPPS)	12'000		
for Outreach (MAP)	5'600	6'000	10'400
for Outreach (webportal, not MAP)	0	4'000	
for IPPOG	0	3'000	3'000
contributions from CERN	5'000	5'000	5'000
for EPPCN	5'000	5'000	5'000
contributions from SERI	15'000	15'000	15'000
for EPPCN	15'000	15'000	15'000
other contribution	3'500	0	2'500

BALANCE

Balance	-3'231	-13'500	-1'683
Asset at start of the year	60'266	57'434	57'434

2017 income

INCOME

Total income	133'430	125'000	127'280
contributions from CHIPP members	84'330	84'000	83'780
contribution from SCNAT	25'600	21'000	21'000
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for Zuoz	8'000		
for Workshops (SWAPS / SWHEPPS)	12'000		
for Outreach (MAP)	5'600	6'000	10'400
for Outreach (webportal, not MAP)	0	4'000	-400
for IPPOG	0	3'000	3'000
contributions from CERN	5'000	5'000	5'000
for EPPCN	5'000	5'000	5'000
contributions from SERI	15'000	15'000	15'000
for EPPCN	15'000	15'000	15'000
other contribution	3'500	0	2'500



BALANCE

Balance	-3'231	-13'500	-1'683
Asset at start of the year	60'266	57'434	57'434

2017

2018

Total expenses	#	#	128'963	147'800	144'400
Membership fees	#	#	6'627	6'800	6'800
Membership in SCNAT	#	#	3'150	3'500	3'500
Membership in IPPOG	0	#	3'477	3'300	3'300
Schools & Conferences	#	#	14'446	29'000	29'000
CHIPP PhD School (parts from SCNAT)		#	14'446		
PhD/PostDocs days	0				
Zuoz (parts from SCNAT)	#			12'000	12'000
SCNAT)	#			17'000	17'000
PSI 2016/RECFA visit 2016	#				
reserve	0	#	0	0	0
Communication & Outreach	#	#	26'041	26'000	23'000
Administrator employment EPPCN	#	#	15'000	15'000	15'000
Dialogue (parts from SCNAT)	#	#	10'400	10'000	7'000
EPPCN travel (CERN)	0	#	641	1'000	1'000
CHIPP Prize	#	#	3'000	4'500	4'500
Prize money	#	#	3'000	3'000	3'000
travel expenses	0	#	0	1'500	1'500
CHIPP Meetings	#	#	542	2'000	600
CHIPP Board Meetings	#	#	212	700	300
CHIPP EB Meetings	#	#	330	300	300
CHIPP Plenary (invited speakers, Administrator, secretariat)	#	#		1'000	
Operations	#	#	78'170	78'000	78'000
salary, social charges, pension fund	#	#	77'200	77'000	77'000
travel and other expenses	#	#	970	1'000	1'000
CHIPP website & Accounting	0	#	138	1'500	2'500

SCNAT

administration cost:

800 CHF

(employee)

1000 CHF

(accounting)

INCOME

Total income	##	##	127'280	130'220	130'220
contributions from CHIPP members	##	##	83'780	80'920	80'920
contribution from SCNAT	##	##	21'000	29'300	29'300
for CHIPP School		##	8'000		
for Zuoz	##			8'000	8'000
for Workshops (SWAPS / SWHEPPS)	##			11'000	11'000
for Outreach (MAP)	##	##	10'400	7'000	7'000
for Outreach (webportal, not MAP)	0	##	-400	0	0
for IPPOG	0	##	3'000	3'300	3'300
contributions from CERN	##	##	5'000	5'000	5'000
for EPPCN	##	##	5'000	5'000	5'000
contributions from SERI	##	##	15'000	15'000	15'000
for EPPCN	##	##	15'000	15'000	15'000
other contribution	##	0	2'500	0	0

At the moment
total membership fees:
80260 CHF

Maybe it will be possible
to have some extra money
after the summer for
Outreach (B. Vogel)

BALANCE

Balance	##	##	-1'683	-17'580	-14'180
Asset at start of the year	#	##	57'434	55'751	55'751

Agenda item 4: Closure of the 2017 Accounts (3)

Balance Sheet

- Assets at end-2017: **89'535.12** (*end-2016: 118'841.64*)
- This includes transitory liabilities of 33'790.- (membership fees 2017 + SERI support to EPPCN already paid in 2017, and to be paid support to Winter School) and transitory assets of 21'400.- (SCNAT support to be reimbursed in 2018)
- **Net assets** at end 2017: **55'745.12** (*end 2016: 57'431.64*)
- **Decrease in assets** 2017: **-1'686.52 CHF** (*2016: -2'834.50*)

Auditor's report

- The audit took place on 31 January 2018 in Zurich with two auditors – Ben Kilminster (UZH) & Aurelio Bay (EPFL) – in presence of Angela Benelli (administrator), and Monika Röllin (accountant, UZH).
- According to the auditors, the statements fairly represent the financial position of CHIPP, have been prepared with care and comply with statutory requirements.

Agenda item 4: Closure of the 2017 Accounts (4)

➔ **The Board is invited**

- **to approve** the Annual Report 2017 to be made publicly accessible on the CHIPP website;

➔ **Following the positive recommendation of the auditors, the Board is invited**

- **to approve** the Annual Accounts, the Balance Sheet and the Profit and Loss Statement for the year 2017;
- **to formally discharge** the CHIPP EB and the CHIPP Administration for the year 2017, expressing at the same time its thanks and appreciation for the careful accounting.

Base: Article 27, litt.u and litt. v; simple majority

Discussion of the future CHIPP funding

- **Database statistics** (12-02-2018)

CERN: 20

EPFL: 42 (1) Theory : 14

ETHZ : 76 (2) Theory: 12 (3)

PSI: 37 Theory: 9

Geneva: 57 (2) Theory: 6 Astronomy: 3 (1)

Basel: 7 Theory: 7 (2)

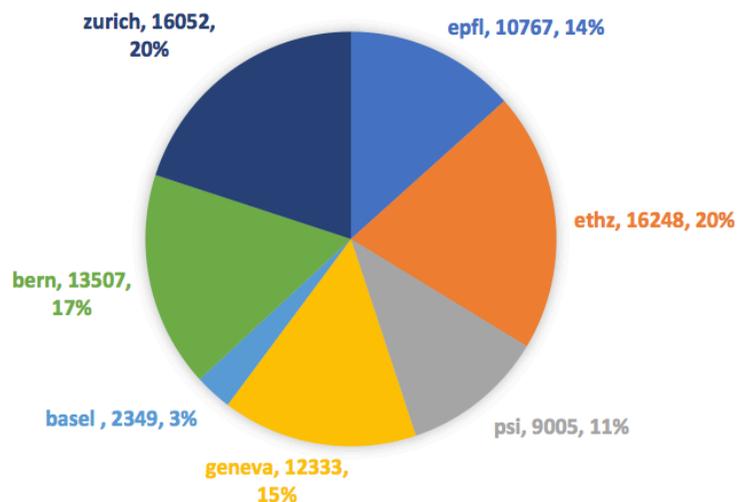
Bern: 36 (2) Theory: 36 (1)

Zurich: 59 (4) Theory: 27

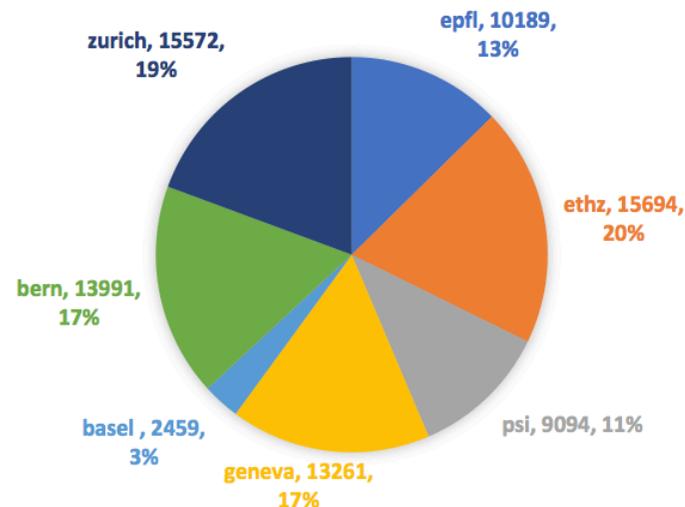
- **Database updates every 3/4 month**

Membership fees Example ..

INDIVIDUAL MEMBERSHIP FEES



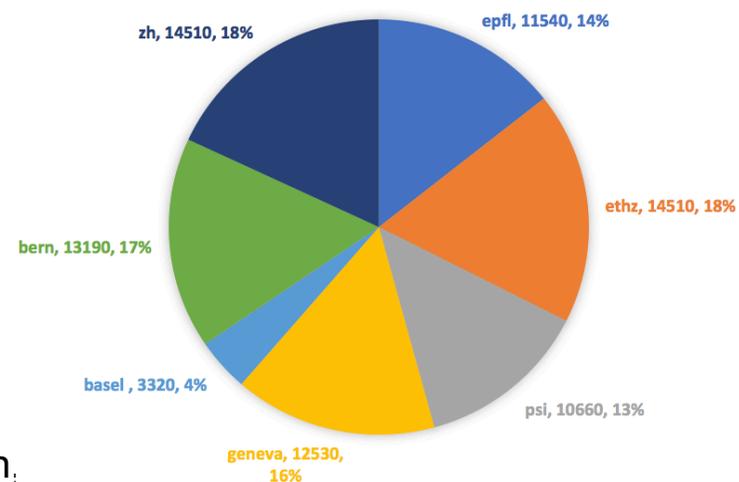
INSTITUTE+INDIVIDUAL MEMBERSHIP FEES



single	195.7560976	
institutes	big > 55	5600
	14<medium<56	3500
	small<15	1000
cost per memb	121.609756	

To get 80'260 CHF

MEMBERSHIP FEES --> NOW



Agenda item 5: Pillar 1 White Paper

Introduction

- ▶ Rainer Wallny

Discussion

Pillar 1 Whitepaper: Boundary Conditions

- **Scope** of the Whitepaper (WP) for Pillar 1:
 - Set the strategy for 2019-2029 (i.e. post LHC Run 2) to cover 2025-30 with HL-LHC
 - by then we hope to know the next future high energy machine
 - Also better include interplay high energy / low energy frontier
- **Timescale:**
 - **2018** Swiss internal Road Map discussion ; Pillar 1 WP as input for (update of) CHIPP-Roadmap
 - First Strategic Workshop 3-6 April 2018, open to all CHIPP members
 - Second workshop in 13/14 September, restricted to about 100 people
 - Planning for first Workshop in analogy to SWHEPPS program
 - **2019** Europe-wide discussions about the European strategy
 - **Spring 2020** – new European Strategy ready
- We attempt **no prioritization recommendation** in WP
 - WP should provide necessary ingredients for discussion during the 2018 workshops
- WP needs to be **ready before April 2018**

Pillar 1 Whitepaper: Boundary Conditions

- **Scope** of the Whitepaper (WP) for Pillar 1:
 - Set the strategy for 2019-2029 (i.e. post LHC Run 2) to cover 2020 November
 - by then we hope to know the next future high energy machine
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 - **2018** Swiss internal Road Map discussion ; Pillar 1 WP as input for (update of) CHIPP-Roadmap
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Slide from last
Board in
November

Pillar 1 Whitepaper: Core Editorial Team

- Editorial Team:

- Florencia Canelli
- Gino Isidori
- Klaus Kirch
- Lenny Rivkin
- Olivier Schneider
- Tobias Golling
- Rainer Wallny (organization)

- Several Meetings

- 6 November 2017, 1 December 2017, 18 January 2018, 23 February 2018

- 1) The overarching theme of pillar 1 research activities in Switzerland
- 2) Current Implementation of pillar 1 research in Switzerland
- 3) Potential Future Facilities as Drivers
- 4) Appraisal of the current implementation and its relation to the drivers
- 5) Conclusions

In addition we will draft:

An accompanying letter with “provocative questions” to spur the discussions at the first SWICH workshop in April

CHIPP Pillar 1 Whitepaper 2017:

Input to the Strategic Workshops in Switzerland



Swiss Institute of
Particle Physics
DRAFT
February 15, 2018

Agenda item 6: Strategic workshops of 2018

Introduction

- ▶ Michele Weber

Discussion

Strategic Workshops 2018

M. Weber, CHIPP Board meeting, Feb 14th, 2018.

- Update of the European Strategy for Particle Physics (ESPP) by May 2020, preliminary discussions will take place in 2019
- The Swiss contribution should be ready by early 2019 as input to this process

→ Update of the CHIPP Roadmap in 2018

- Two strategic workshops to be held in 2018 (see next slides):
 - Spring (3-6 April 2018):
Status of the fields, white papers, options, developments, planning
 - Fall (13-14 September 2018):
Define roadmap, priorities

Strategic Workshops 2018

Centre Löwenberg in Murten: 3-6 April 2018



Parc Hotel in Fribourg: 13-14 September 2018



Registration is open !

<https://indico.cern.ch/event/687183>

Please register a.s.a.p.,
before March 14th



CHIPP SWICH April 2018
Swiss Institute of
Particle Physics

3-6 April 2018
Schweizerische Bundesbahnen SBB Centre Löwenberg
Europe/Zurich timezone

Search...

Overview
Timetable
Contribution List
Speaker List
Registration
Participant List

Angela Benelli
✉ angela.benelli@cern.ch
✉ Angela.benelli@chipp.ch

CHIPP is planning an update of the Swiss roadmap on particle physics. This will serve as a basis for the Swiss input for the update of the European Strategy for Particle Physics, which is the European-wide discussion to take place in 2019. Strategic Workshop in Switzerland (SWICH) is the first of the two workshops to prepare the Swiss roadmap update, it is open to all CHIPP members having interest to contribute to the discussion.

PLEASE REGISTER BEFORE THE 14th MARCH 2018

🕒 **Starts** 3 Apr 2018, 10:00
Ends 6 Apr 2018, 20:00
Europe/Zurich

👤 **Michele Weber**
Tatsuya Nakada

📍 Schweizerische Bundesbahnen SBB Centre
Löwenberg
CH-3289 Murten

📎 **Accommodations for families**
📄 Broschüre MT, FerienWohnungen.pdf
📄 Broschüre MT, GästeZimmer.pdf
📄 Broschüre MT, GruppenUnterkunft.pdf
📄 Broschüre MT, Hotels.pdf

Program committee input

- General:
 - Discuss at the end of the workshop on the best structure of the roadmap in terms of physics, infrastructures or pillars
- Program:
 - Interleave experiment and theory within the same blocks
 - Include the WPs into the relevant block/sessions
 - Reserve enough time for discussions after each morning/afternoon block
 - Invited speakers from CERN and PSI
 - Most, if not all, the speakers in the sessions should be from CHIPP. But invited speakers are possible
 - Sessions on Large infrastructures and Accelerator / Detector R&D
 - Session on "computing needs was added. Initially the plan was to include this for the September workshop, but collecting the information and needs already in April is better

Block program

- Also available on the Indico site (pending some modifications)
- Conveners of the sessions are defined (next slide)
- Programs of the sessions with speakers is almost complete
- Discussion/coordination ongoing among the “physics” session and between them and the infrastructure/detector/R&D (make it coherent w.r.t. to information provided)

	Tuesday 3.4.	Wednesday 4.4.	Thursday 5.4.	Freitag 6.4.
8:30-9:45		Flavour + Theory	AstroP Whitepaper + Astroparticle	Computing needs
		COFFEE	COFFEE	COFFEE
10:00-11:15		BSM indirect searches + Theory	DM / Cosmology + Theory	Future large infrastructures
11:15-12:00		Discussion	Discussion	
	Arrival	LUNCH	LUNCH	LUNCH
13:15-14:00	Intro / Goals White Paper Pillar 1	Neutrino Whitepaper + Neutrino	Invited speaker PSI (J. Grillenberger)	International roadmaps
14:00-15:15	Higgs + Theory		Small scale - large impact	Summary and Tasks for the Sept workshop
	COFFEE	COFFEE	COFFEE	
15:30-16:45	BSM direct searches + Theory	Neutrino theory + New endeavours (SHIP et al)	Detectors and Accelerators R&D	
		Discussion		
16:45-17:30	Discussion	Invited speaker CERN (E. Eisen)	Discussion	

Session	Convener
Intro	Michele
WP pillar 1	Wallny
Higgs + theory	Canelli + Gehrman
BSM direct + theory	Golling + Rattazzi or Wulzer
Flavour and BSM indirect + theory	Schneider + isidori
Neutrino with WP	Rubbia + Ereditato
Neutrino theory + new endeavours	Antusch + Shaposhnikov

AstoParticle with WP	Montaruli
DM + Cosmology + theory	Baudis + Durrer
Small scales - large impact	Kirch
Detectors and Accelerator R&D	Rivkin + Kreslo
Computing needs	Grab
Future Infrastructures	Blondel + Nakada
Summary and plans	Weber

Goals

- September: define the new CHIPP roadmap (converge on recommendations)
- → April we need to discuss all the options for physics goals and what it would mean in terms of infrastructure, R&D, timeline, etc...
- The type of questions to address could be:
 - what are the major physics goals to be achieved in the next 10-15 years ?
(With a perspective of 20-30 years ?)
 - what are milestones and possible timeline ?
 - what are the related experimental infrastructures needed: accelerators, beams, experiment upgrades, detector R&D, computing, observatories, experimental facilities, people, time, ...
 - where would investment on the items above bring major breakthroughs for the physics ?
 - which of the required items is available in Switzerland ? Should be made available ?
Which are available in Europe ? Should be made available ?
 - what are the particular interests and opportunities for Swiss groups ?
 - what are the links to the physics goals of the other session ?
 - does it make sense to keep a strategy organized by the current pillars ?
 - - ...

Agenda item 7: Computing steering board

Presentation

- ▶ Michele Weber for Christoph Grab

Discussion

News from the “CHIPP LHC Computing Board”

- News in “CHIPP LHC computing”, since last board meeting

Christoph Grab
ETH Zürich



15.02.2018

Strategic and Operational issues (1) – HPC - LHC

- Challenge for computing resources to LHC experiments – over next 8 years need a factor of ~50 more resources.
- Switzerland started project LHConCRAY in 2016 (initiated at AEC-Bern) to test possibility and economy of LHC workloads on HPCs.
- December 2017: concluded tests successfully.
 - *Team CSCS+CHIPP succeeded to run ALL LHC job-types on CRAY ! found same job efficiency as PHOENIX, but higher economic value*
 - *Meeting of "CHIPP LHC computing board" on 7.12.2017, decided to go for using HPC for providing the Swiss T2-resources at CSCS.*
 - 1) CSCS will provide shared HPC resources for LHC computing, based on same FLAT budget by FLARE/SNF (and ETHZ+Uni contributions)
 - 2) We will continue to provide the pledges of Switzerland towards WLCG
 - 3) PHOENIX as a "separate dedicated cluster" will be phased out eventually.
 - 4) AEC at Bern continues providing additional ATLAS-T2 resources

Strategic and Operational issues (2) - HPC - LHC

- Presentations of the LHConCRAY project in the pre-GDB meetings on HPC at CERN, and at various conferences has caused large interest by the community
- It is recognised as one possible way for future provisioning of resources on alternative architectures
- Is followed up in GDB (full WLCG's grid deployment board)
→ Scheduled presentation by CSCS/CHIPP in GDB on 14.2. @CERN
- Note that worldwide various other initiatives exist along similar lines to exploit alternatives and prepare for the future ...
see eg. <https://indico.cern.ch/category/9249>

Agenda item 9: EB news

Announcements since last Board meeting:

- Roland Horisberger has been awarded the Charpak-Ritz Prize 2018
- Teresa Montaruli was nominated unanimously vice-chair of APPEC GA



<https://indico.cern.ch/event/687183/>

**Register
before the 14 March**

Please tell to your students to register

Nomination for other positions: Board elections

APPEC General Assembly scientific delegate : **Teresa Montaruli** (Geneva)
accepted to continue from January 2019 to ??

CHIPP Account Auditor: **Ben Kilminster** accepted to continue after June 2018

EPPCN representative: **Angela Benelli** accepted to continue after December 2018

The **CHIPP Executive Board** (EB) has currently the following members:

- Tatsuya Nakada (Chair) (until Dec 2019)
- Adrian Signer (until Dec 2018)
- Günther Dissertori (until Dec 2019)
- Michele Weber (until Dec 2018)

Michele Weber is ready to serve for a new term as EB member, **Adrian Signer** would like to step down → nomination

Plenary elections:

ACCU: M. Dittmar (he would like to early retirement) → nomination

Plenary-ECFA representative:

L. Rivkin & O. Steinkamp cannot be extended after Dec 2018 → nominations

A. Knecht (PSI) accepted to continue from January 2019 to December 2020

Restricted ECFA: L. Rivkin not possible to extend him after Dec 2018 → nomination

Other issues..

- **CTA funding by SERI ?**

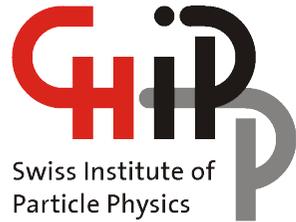
Agenda item 10: ETC* membership

It is my pleasure to inform you that the SNSF formally accepted the funding of ECT* with 10'000 EUR per year for the next 4 years.

The decision did arrive quickly without a formal request.

The SNSF division on International Co-operation shall now contact the direction of ECT* and solve the practicalities for a direct payment from SNSF to ECT* for 2018 to 2021.

Any renewal beyond this date shall then be reapproved.



Agenda item 11: CHIPP Prize 2018: announcement

Presentation for information

- ▶ Adrian Signer



CHIPP Prize 2018

CHIPP Prize Committee

Aurelio Bay, Alain Blondel, Ralph Eichler, Adrian Signer

Alain Blondel takes over from Maurice Bourquin

CHIPP Prize 2018

Call will be sent out mid February

(by email to all members of CHIPP)

Deadline for applications: **Fri 13 April 2018**

(CV, Report, List of Publ, 2 or 3 Letters, by email to adrian.signer@psi.ch)

Encourage your current or former PhD students to apply

(if they have passed their final PhD thesis defence after 13 April 2017)

Prize ceremony: SPS/CHIPP annual meeting 29-31 August

Agenda item 12:



Zuoz Summer School 12-18 August 2018



Registration is open !!

Early registration (before 1.May)

CHF 690.-

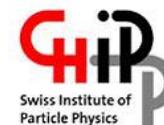
(fully inclusive: school fee, accommodation, full board, coffee breaks, excursion, conference dinner)

Deadline (1.August)

CHF 770.- (after 1.May)

<https://www.psi.ch/particle-zuoz-school>

Adrian Signer, Michael Spira, Anita van Loon-Govaerts, zuoz2018@psi.ch



sc|nat⁺

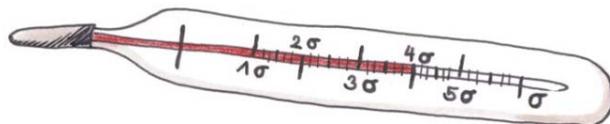
Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles

Theory and Experiment



Particle Flavour Fever

<https://www.psi.ch/particle-zuoz-school>



Adrian Signer, Michael Spira, Anita van Loon-Govaerts, zuoz2018@psi.ch

Dmitry Budker (Mainz)

Exotics searches in atoms and molecules

Augusto Ceccucci (CERN)

Exotics searches at low energy

Sacha Davidson (Lyon)

Exotics and flavour

Tobias Golling (Geneva)

Exotics searches in ATLAS and CMS

Francis Halzen (Wisconsin)

IceCube: building a new window on the

Universe from Antarctica

Matthias Neubert (Mainz)

Flavour physics in the SM and beyond

Patrick Owen (Zurich)

Status of B anomalies

David Straub (TU Munich)

Interpreting B anomalies

Frederic Teubert (CERN)

Future opportunities in flavour physics

Agenda item 13: Update on FLARE Tables

- The FLARE Tables will be sent to the PIs to update them.

Timetable:

- AB will send to each PIs its table soon.
- The tables should be filled by the middle of July
 - first discussion at the board in August with further iterations ..
- then if there are some areas where it's needed some coordination we might invite at the EB meeting some PIs to discuss.
- In addition, we will have a meeting with all the PIs in early October before the submission.

Agenda item 14: News from the community

Any news or announcement to be communicated ?

Agenda item 15: Status of new professorships

New professorships at CHIPP institutes

- report from each institute:
 - ▶ Basel
 - ▶ Bern
 - ▶ Fribourg
 - ▶ Geneva
 - ▶ Zurich
 - ▶ EPFL
 - ▶ ETHZ
 - ▶ PSI

Agenda item 16: Next CHIPP Board & Plenary meetings

Please book the dates in your diary!

Plenary 2018 (again jointly with SPS):

- ➔ **29–31 August 2018, in Geneva (EPFL, Lausanne)**
- ➔ **CHIPP Board & Plenary meeting foreseen on
Tuesday, 28 August 2017**

Board 2018–03, Bern:

- ➔ **Date in early October to be defined**

Agenda item 17: A.O.B.

- **APPEC Report**
 - ▶ Laura Baudis for Teresa Montaruli

APPEC Consortium



- RIA (Ireland)
- STFC (UK)
- FOM (NL)
- FRS-FNRS, FWO (Belgium)
- CEA, CNRS (France)
- SNSF (Switzerland)
- LSC (Spain)
- FCT (Portugal)
- OSI (Finland)
- VR (Sweden)
- DESY, KIT (Germany)
- JINR (Dubna, Russia)
- NCN (Poland)
- IEAP-CTU (CZ)
- INFN (Italy)
- IFIN-HH (Romania)
- CSF (Croatia)
- NOA (Greece)

Observers: CERN, ECFA, ESO, NCN, CSF

Observers: CERN, ECFA, ESO, NCN, CSF

Launch of the Roadmap event

<https://indico.nikhef.nl/event/767/>

- Plenary session: A. Masiero (APPEC Chair), RJ Smits, G. Rossi, J.van den Brand, Cordova (NSF) , E. Elsen (CERN), Ivison (ESO)

About APPEC: [Strategic objectives](#)

- Coordination of European Astroparticle Physics
- Develop and update long term strategies (roadmap)
- Express collective views on APP in international fora

[Implementation objectives](#)

- Coordination between existing/developing national activities
- Convergence of future large scale projects/facilities
- Organisational advice for implementation of large facilities
- Launch common calls funded by a (virtual) common pot

Job de Kleuver

Public Roadmap (2017-2020):

<http://www.appec.org/wp-content/uploads/2017/08/APPEC-Strategy-Book-Proof-23-Nov-2.pdf>

<http://www.appec.org/roadmap>



European Astroparticle
Physics Strategy
APPEC 2017-2026

Scientific issues – 13×

- *Large-scale: CTA, ν -telescopes, Auger, GW*
- *Medium-scale: Dark Matter, ν -mass, $0\nu\beta\beta$*
- *+PP: ν -mixing; +ASTRO: Dark Energy & CMB*
- *Base: theory, R&D, computing
deep-underground laboratories*

Organisational issues – 5×

- *European Commission*
- *European collaboration/coordination*
- *Global collaboration/coordination*
- *Particle physics & Astronomy*
- *Inter-disciplinary opportunities*

Societal issues – 3×

- *Gender balance*
- *Education & Outreach*
- *Industry*

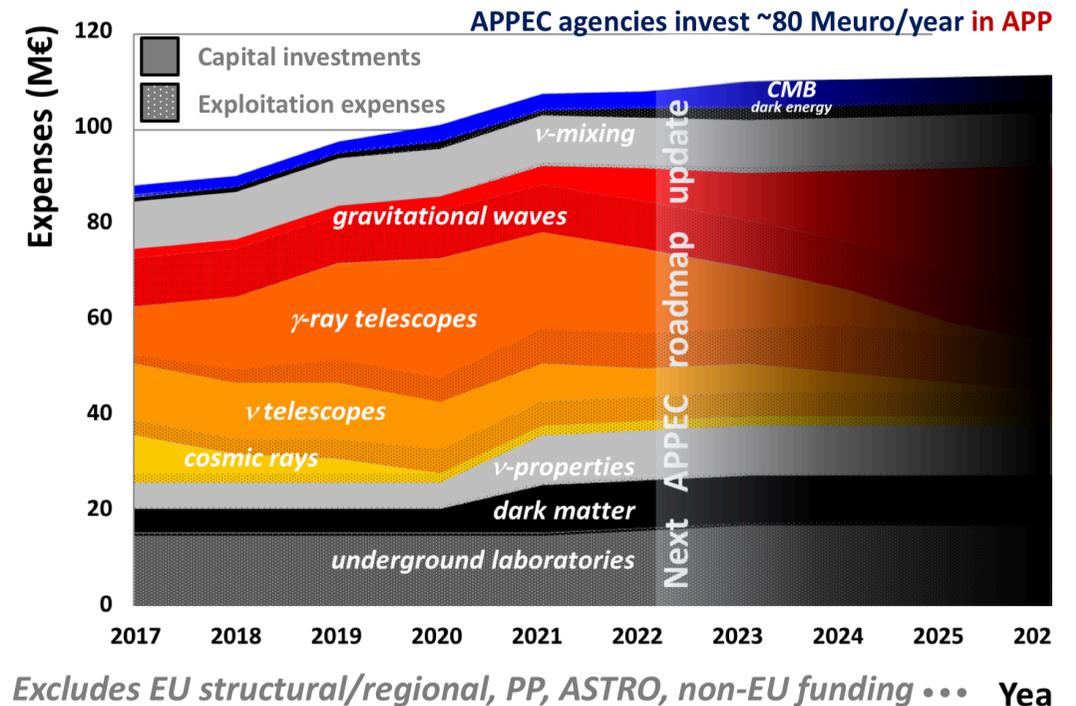
Resource aware roadmap in an Int. contest



The durability of large RI is addressed by ESFRI:



www.esfri.eu



Other highlights from the launch meeting:

– ESFRI ROADMAP 2018 UPDATE PROCESS STARTED (G. ROSSI'S TALK)

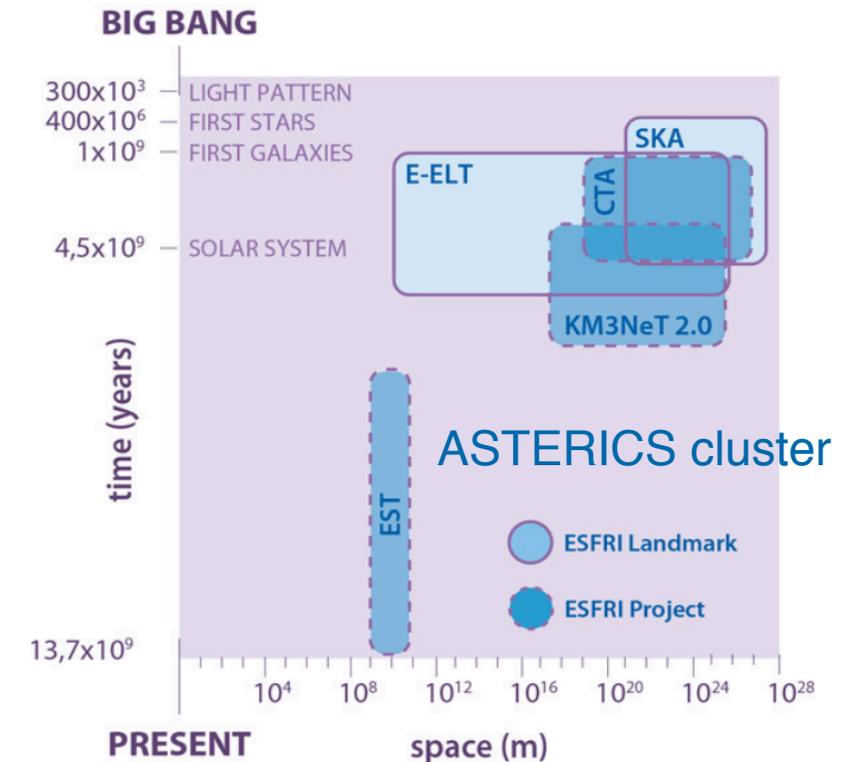
21 Projects

ESFRI PROJECTS							ESFRI LANDMARKS						
NAME	FULL NAME	ROADMAP ENTRY (YEAR)	OPERATION (YEAR)	LEGAL STATUS (AS OF 11/06/2018)	CONSTRUCTION COST (M)	OPERATIONAL ANNUAL BUDGET (M/EUR YEAR)	NAME	FULL NAME	ROADMAP ENTRY (YEAR)	OPERATION (YEAR)	LEGAL STATUS (AS OF 11/06/2018)	CAPITAL VALUE (M)	OPERATIONAL ANNUAL BUDGET (M/EUR YEAR)
ECCSEL	European Carbon Dioxide Capture and Storage Laboratory Infrastructure	2008	2016	ERIC under preparation	80-120	1**	JHR	Jules Horowitz Reactor	2006	2020*		1,000	NA
EU-SOLARIS	European SOLAR Research Infrastructure for Concentrated Solar Power	2010	2020*	ERIC under preparation	120	3-4	EMSO	European Multidisciplinary Seafloor and water column Observatory	2006	2016	ERIC under preparation	108	36
MYRRHA	Multi-purpose Hybrid Reactor for High-tech Applications	2010	2024*		NA	100	EURO-ANGO ERIC	European contribution to the International Argo Programme	2006	2014	ERIC, 2014	10	8
WINDScanner	European WindScanner Facility	2010	2018*		45-60	8	MGOS	In-service Aircraft for a Global Observing System	2006	2014	ATISBL, 2014	25	6
ACTRIS	Aerosols, Clouds and Trace gases Research Infrastructure	2016	2023*		190	50	ICOS ERIC	Integrated Carbon Observation System	2006	2016	ERIC, 2015	48	24-35
DANUBIUS-RI	International Centre for Advanced Studies on River-Sea Systems	2016	2022*		222	28	UCLWWatch	e-Infrastructure for Biodiversity and Ecosystem Research	2006	2016	ERIC under preparation	66	10
BSCAT_3D	Next generation European Incoherent scatter radar system	2008	2021*		74	6	IBBARI ERIC	Biobanking and Biomolecular resources Research Infrastructure	2006	2014	ERIC, 2013	170-220	3,5
EPOS	European Plate Observing System	2008	2020*	ERIC under preparation	53	15	EATNS ERIC	European Advanced Translational Research Infrastructure in Neuroscience	2006	2013	ERIC, 2013	900	2,5
SIOS	Svalbard Integrated Arctic Earth Observing System	2008	2020*		80	2-3	ECRIN ERIC	European Clinical Research Infrastructure Network	2006	2014	ERIC, 2013	1,5	2
ArArE	Infrastructure for Analysis and Experimentation on Ecosystems	2010	2018*		200	2-3**	ELIOR	A distributed Infrastructure for Neuroscience Information	2006	2014	EUPIX Consortium Agreement, 2013	125	66
EMBRIC	European Marine Biological Resource Centre	2008	2016	ERIC under preparation	4,5	6	INFRAFRONTIER	European Research Infrastructure for the generation, phenotyping, archiving and distribution of mouse disease models	2006	2013	Gmsh, 2013 ERIC under preparation	180	80
EMPHASIS	European Infrastructure for multi-scale Plant Phenomics and Simulation for food security in a changing climate	2016	2020*		75	3,6	INSTRJCT	Integrated Structural Biology Infrastructure	2006	2012	International Consortium Agreement, 2012 ERIC under preparation		
EPHRIA	European research Infrastructure on Highly pathogenic agents	2008	2018*		NA	NA	E-ELT	European Extremely Large Telescope	2006	2024*	Programme of ESO		
EU-OPENSCREEN	European Infrastructure of Open Screening Platforms for Chemical Biology	2008	2018*	ERIC under preparation	7	1,2	ELI	Extreme Light Infrastructure	2006	2018*	ATISBL, 2013 ERIC under preparation		
Euro-BrainImaging	European Research Infrastructure for Imaging Technologies in Biological and Biomedical Sciences	2008	2017*	ERIC under preparation	NA	1,55	ENFL	European Neutron Facility Laboratory	2006	2014	ATISBL, 2012		
EBE	Infrastructure for Systems Biology Europe	2010	2018*		30	7,2	ESRF UPGRADES	Phase II: Extremely Brilliant Source	2006	2015	Programme of ESRF		
CTA	Cherenkov Telescope Array	2008	2023*		297	20	European Spallation Source ERIC	European Spallation Source	2006	2023*	ERIC, 2015		
KM3NET 2.0	KM3 Neutrino Telescope 2.0: Astroparticle & Oscillations Research with Cosmics in the Alps	2016	2020*		92	3	European XFEL	European X-Ray Free-Electron Laser Facility	2006	2017*	Gmsh, 2009		
ERHS	European Research Infrastructure for Heritage Science	2016	2022*		4	5	F4IR	Facility for Antiproton and ion Research	2006	2022*	Gmsh, 2010		
							HL-LHC	High-Luminosity Large Hadron Collider	2016	2026*	Programme of CERN		
							ILL 20/20	Institut Max von Laue-Paul Langevin	2006	2020*	Programme of ILL		
							SKA	Square Kilometer Array	2006	2020*	SKAQ, 2011		
							SPIRAL2	Système de Production d'Ions Radioactifs en Ligne de 2e génération	2006	2016	Programme de GANIL		
							CESSDA	Consortium of European Social Science Data Archives	2006	2013	Newswagon Embed company, 2013 ERIC under preparation		
							CLARIN ERIC	Common Language Resources and Technology Infrastructure	2006	2012	ERIC, 2012		
							DARIAH ERIC	Digital Research Infrastructure for the Arts and Humanities	2006	2019*	ERIC, 2014		
							ESS ERIC	European Spallation Source	2006	2013	ERIC, 2013		
							SHARE ERIC	Survey of Health, Ageing and Retirement in Europe	2006	2011	ERIC, 2011		
							PRACE	Partnership for Advanced Computing in Europe	2006	2010	ATISBL, 2010		

29 Landmarks

ESFRI Landscape for Astronomy and Astroparticle

Figure 1B: space and time domain of investigation of the ESFRI Projects and Landmarks in Astronomy and Astroparticle Physics

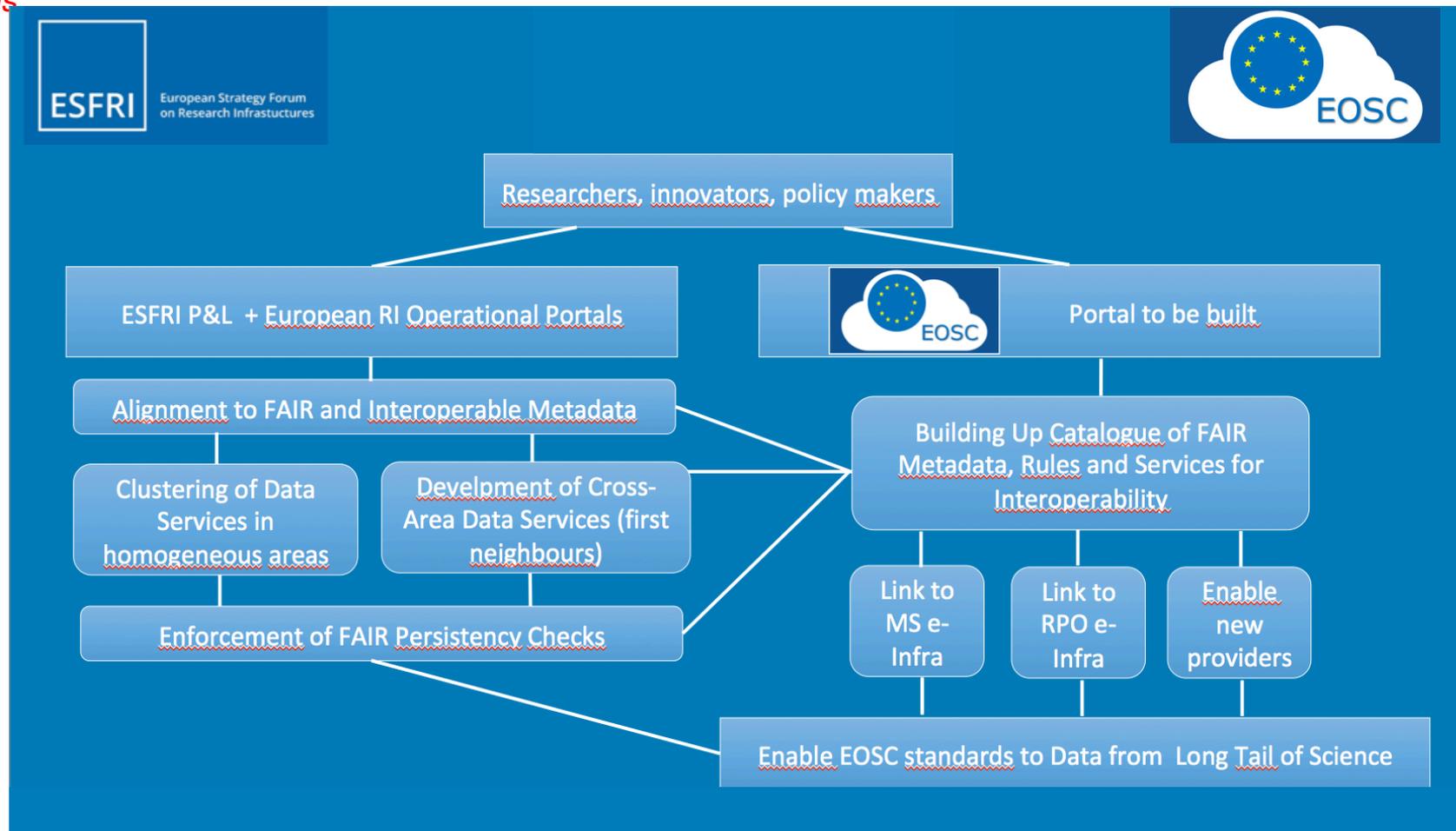


EOSC - EU Open Science Cloud

<https://ec.europa.eu/research/openscience/index.cfm?pg=open-science-cloud>

EOSC should adopt a subsidiarity & participatory principle, should not deligitimate RI's, should fill th gaps of unstructured areas, should be interdisciplinary and interoperable.

Position of ESFRI on EOSC: ESFRI is more than a "stakeholder" of the EOSC as it represents the effort of the Landmarks and Projects in developing Open Science objectives and namely Open Data policies that amount to ca 15% average of the overall financial effort in RIs. Therefore ESFRI is the Strategy Hub of Founders also for a large share of the EOSC-building actions

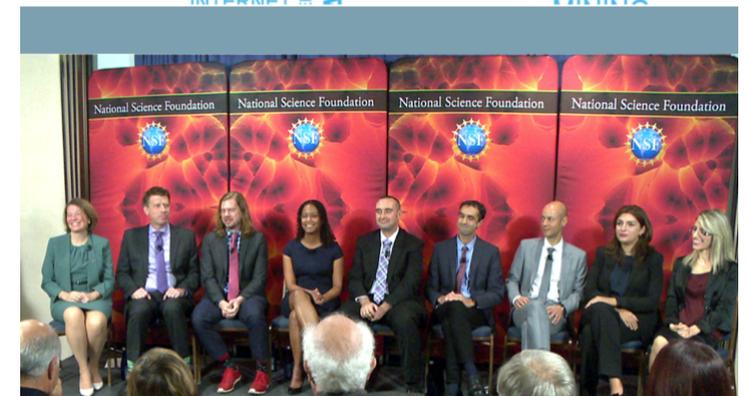


View of SNF (FA Cordova)

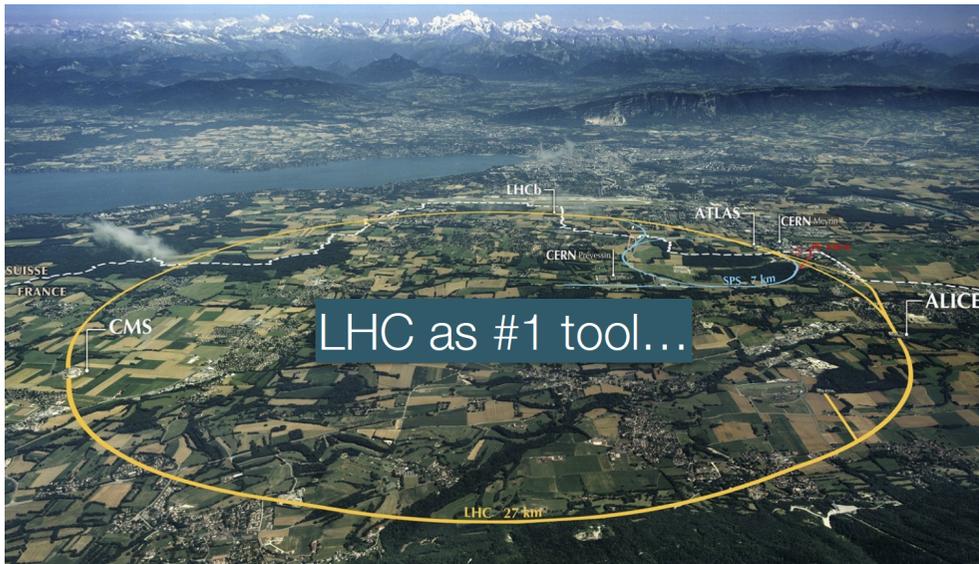
- the era of Multi-messenger Astrophysics (during the meeting a common call for instruments for MMA and a dedicated Roadmap were proposed to APPEC)



- The challenge: data exchange and common platforms



Preparing the European Strategy Particle Physics Update (2020)

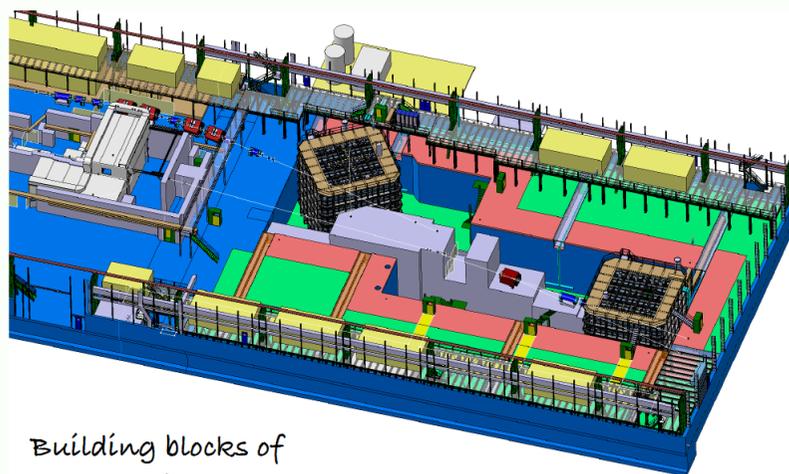


But CERN also establishes formal contacts with neighbouring fields through REC (18 mentioned in APPEC roadmap/28) and Nu Platform. Now also cryo support for DarkSide because DM is key science for CERN.

Number	Experiment	First Recognized	valid until
RE 1	AMS	1997	31-DEC-2019
RE 2b	Pamela	1999	31-DEC-2018
RE 3	Auger	1998	31-DEC-2018
RE 6	Aritares	1999	31-DEC-2019
RE 7	Fermi /fermi	2000	31-DEC-2018
RE 8	LISA-PF	2000	31-DEC-2018
RE 10	IceCube	2005	31-DEC-2018
RE 11	MICE	2005	31-DEC-2018
RE 12	MEG	2005	31-DEC-2018
RE 13	T2K	2006	31-DEC-2018
RE 14	Katrin	2007	31-DEC-2019
RE 17	Magic	2008	31-DEC-2017
RE 18	ArDM	2008	31-DEC-2017
RE 19	CREAM	2010	31-DEC-2018
RE 20	Belle II	2011	31-DEC-2019
RE 21	CBM	2011	31-DEC-2019
RE 22	Panda	2011	31-DEC-2019
RE 23	CTA-PP	2011	31-DEC-2017
RE 25	CALET	2012	31-DEC-2017
RE 26	Borexino	2012	31-DEC-2017
RE 27	NEXT	2013	31-DEC-2018
RE 28	Advanced Vero	2013	31-DEC-2018
RE 29	DAMPE	2014	31-DEC-2019
RE 30	KM3NeT Phase 1	2014	31-DEC-2019
RE 31	Euclid	2015	31-DEC-2018
RE 33	LIGO	2016	31-DEC-2018
RE 34	JUNO	2017	31-DEC-2019
RE 35	SNO+	2017	31-DEC-2019

Neutrino Platform at CERN

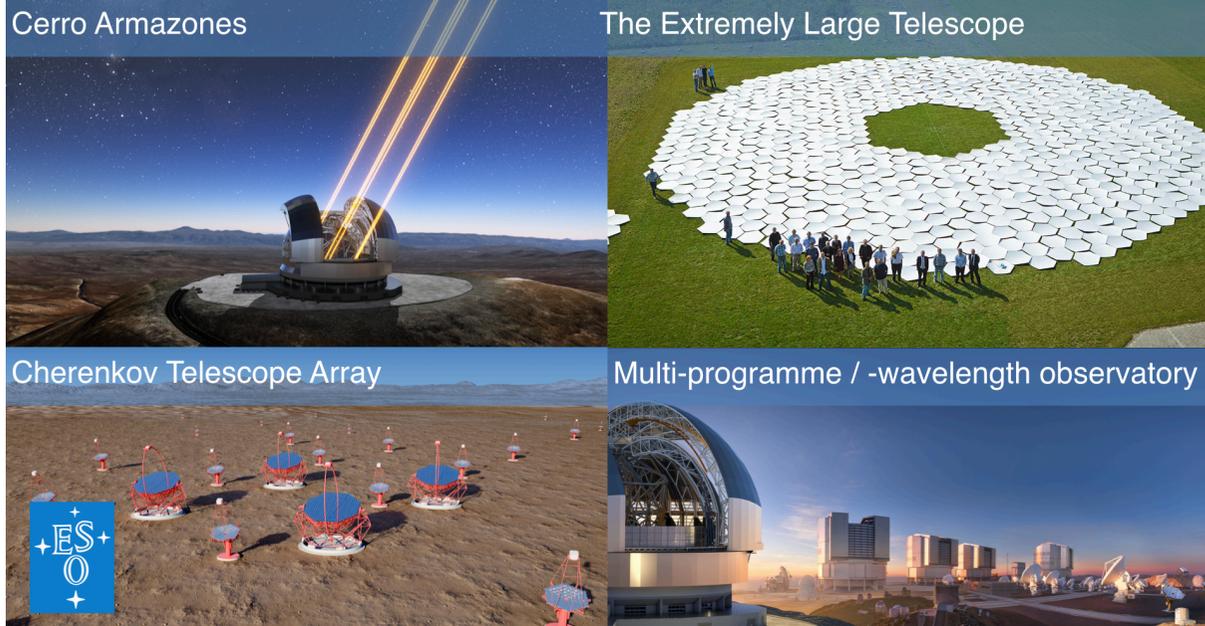
To develop experimental techniques, e.g.
 protoDUNE
 – single phase LArTPC
 – double phase LArTPC



Building blocks of DUNE detector

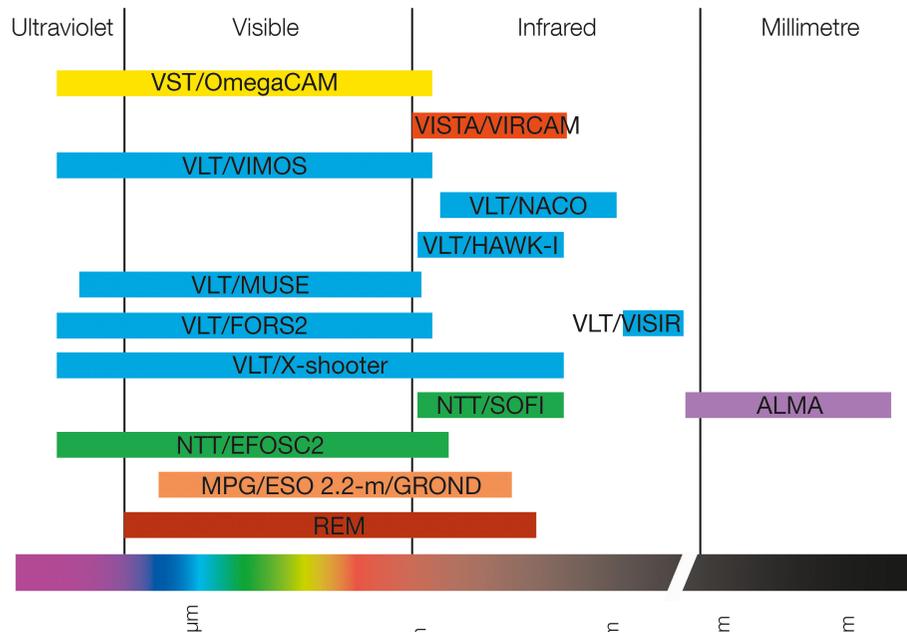
ESO view

European Southern Observatory – in the 2020s



- GWs, neutrinos, gamma rays: posing profound new science questions
- Can be answered only alongside observations of conventional EM radiation
- ***Genuine synergies in multi-messenger era***

Role of ESO for 1st GW event



More than 5,000 scientific images and spectra.

More than 115h of observations.

14 instruments

7 telescopes

Recent news:

- APPEC established a Committee of experts on R&D for next generation ton-scale neutrino-less double beta decay detector to join the analogous committee formed by DOE: A. Giuliani (CNRS/IN3P3, SAC member), E. Previtali (INFN, CUORE), JL Gomez Cadenas (IFIC, NEXT), S. Schoenert (TUM, GERDA, LEGEND), K. Schaeffner (COSINUS, CUPID, CRESST)
- APPEC launched a call for the Astroparticle Physics Theory Centre: in addition to CERN, Univ. Pierre et Marie Curie and Paris Sorbonne, also the Pascal Institute at Paris-Saclay where order of 60 researchers will be invited for several weeks to months of thematic programs.