

Agenda item 1: Agenda

The Draft Agenda has been distributed on 22 December;
no additional items have been requested until 27 December.
The final Agenda has been distributed on 28 December.

Any other business?

Yesterday, a new decision item re 'calculation of the
membership fee' has been proposed and distributed. It's
insertion on the agenda requires a specific decision of the
Board (2/3 majority).

The Board is requested to approve

- the insertion of the new decision item (as item 7), and
- the agenda

Agenda item 2: Apologies and Proxy Votes

- The following Proxies have been designated:
Beisert (for Gaberdiel), Iacobucci (for Clark),
Gornea (for Vuilleumier), Krusche (for Thielemann),
Pohl (for Courvoisier), Ritt (for Horisberger),
Shaposhnikov (for Rattazzi), Dissertori (for Wallny)
- The following apologies have been received:
Courvoisier, Bourquin, Meylan, Gaillard, Burkhardt, Ereditato

→ The Quorum has been reached

Agenda item 3: Minutes of the last meeting

Two comments and requests for amendments have been received immediately after the meeting regarding the minutes of the last CHIPP Board 2011-03 (11/12 September 2011). They have been integrated and uploaded (*→ ...final_draft_rev.1*)

PS: The minutes have been made available shortly after the meeting on our website www.chipp.ch

Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

Introduction:

- In Leysin, the Board has agreed to develop a NCCR proposal and has charged M. Pohl et al. to continue working on the draft.
- Today, the **Board** will be asked – in the end – to **approve** the proposal by simple majority (Art. 27, litt. b. and c.).

→ Presentation of the Status and Progress by M. Pohl

Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

Status Report and progress since Leysin:

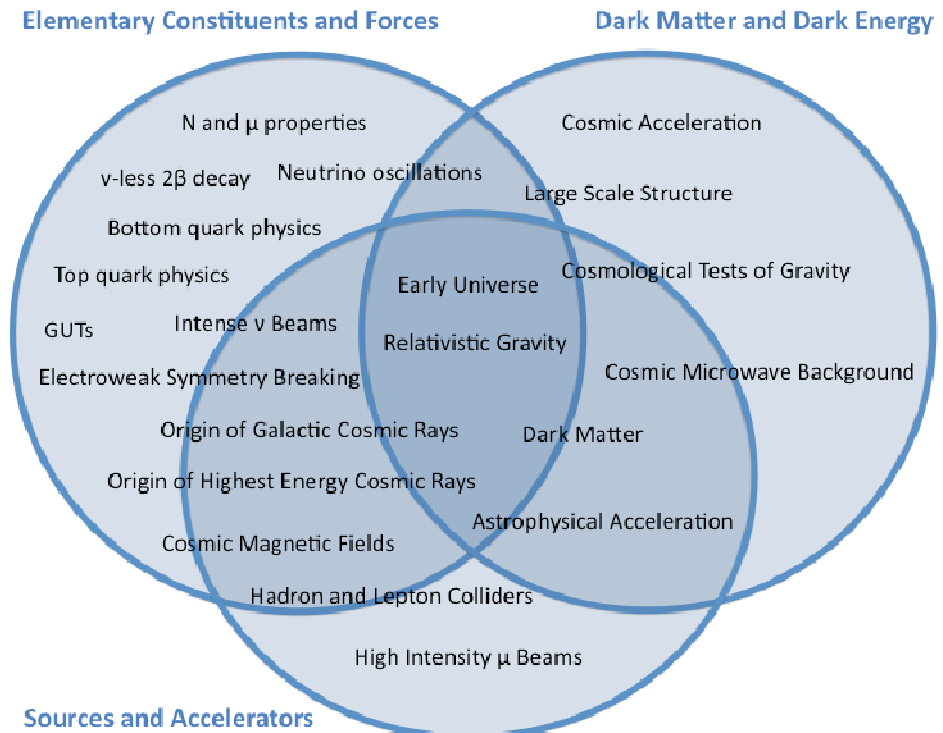
- Concentrated on scientific contents, leaving administrative details for later
- Went through 4 major revisions with 13 versions of the scientific text
- Integrated text from 48 authors, **many thanks to all of them!**
- General introduction and administrative part revised by Daria Lopez-Alegria and Julien Pitton
- Matching funds negotiated with Leading Houses:
 - UniGe: cash 1.6 MCHF/4a, in-kind 1 MCHF/4a for operations plus investment funds, plus salary complements for PhD students
 - PSI: cash 2.0 MCHF/4a, in-kind 2 MCHF/4a
- Support letters from UniGe Rectorate and PSI Directorate

Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

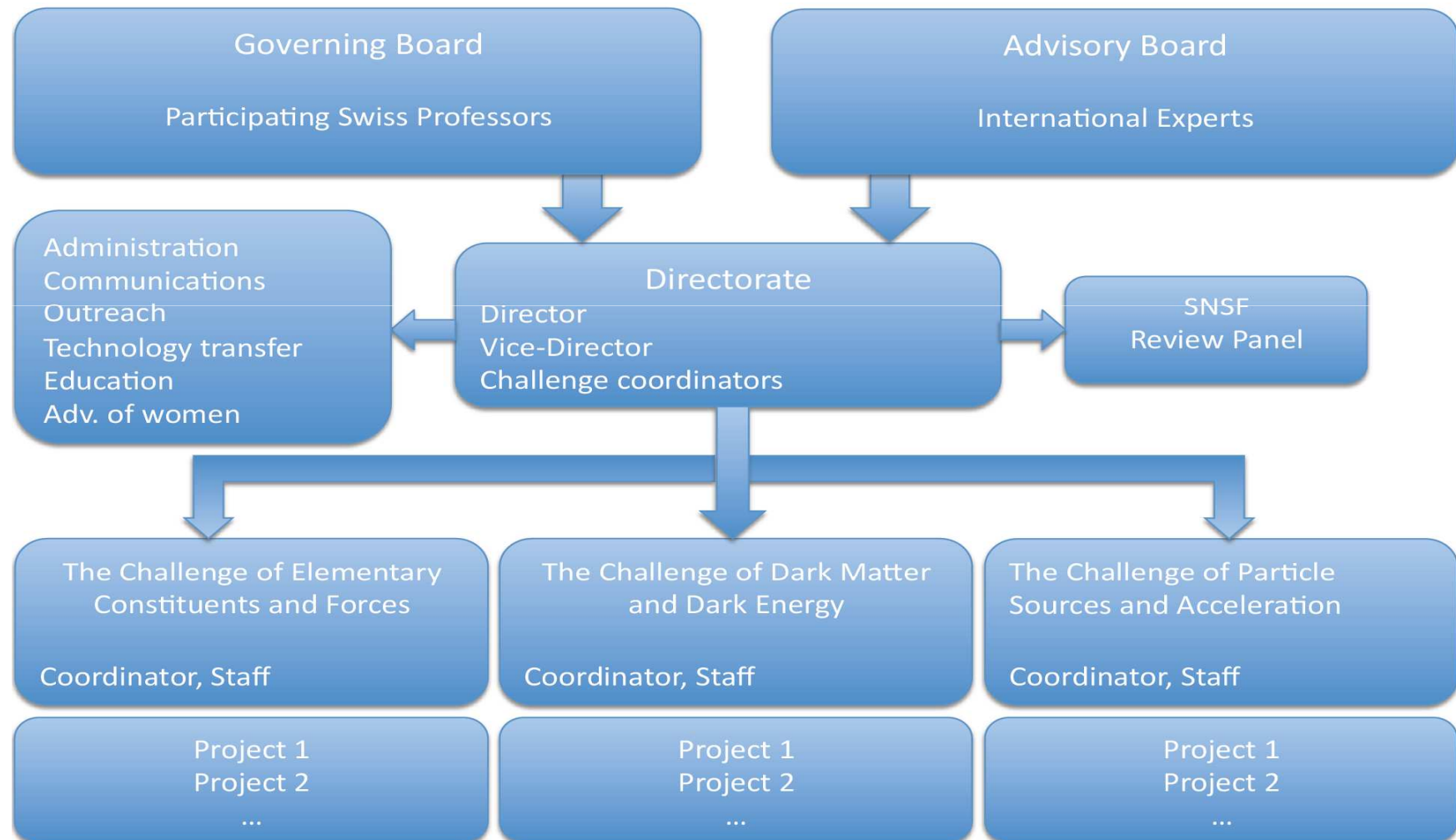
Some elements of Draft Version 4.1
(distributed):

- Reminder: Only personnel, no investment funds for experiments
- Three Challenges:
 - Elementary Constituents and Forces (10 projects)
 - Dark Energy and Dark Matter (6 projects, incl. 1 double project)
 - Particle Sources and Acceleration (8 projects)
- Participating institutions:
 - ETHZ, EPFL, PSI
 - University of Basel, Bern (LHEP only), Fribourg, Genève, Zürich



Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

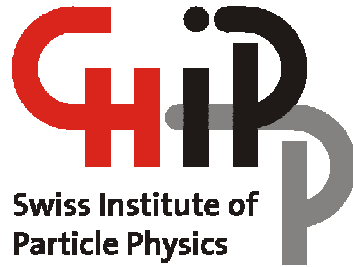


Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

Next steps:

- 12 January (Board): Discuss last changes and get approval.
- 13-15 January (Authors): Include comments from the Board and apply the last touches on the text.
- 16 January (Authors): Submission to SNF
- then (at SNF):
 - Formal check
 - Scientific evaluation by at least two international experts
 - Scientific evaluation by an interdisciplinary committee (8 top shots from abroad)
 - Structural evaluation by Forschungsrat Abteilung IV SNF
- **Please propose names of referees!**



Agenda item 4: NCCR

THE UNIVERSE – Constituents, Forces, Space-Time

Proposals for referees:

- S. Bertolucci (CERN), J. Mnich (DESY)
- F. Halzen (Wisconsin), Michael Ramsey-Musolf (Wisconsin)
- S. Katsanevas (IN2P3), Y. Karyotakis (LAPP)

Agenda item 5: European Strategy for PP: update

Status and time-table:

- summer 2012: CHIPP input to the Strategy Group,
- 10-12 September 2012: open, “Orsay-type” symposium, Cracow, to collect input from the scientific community
- January 2013: a “Zeuthen-type” meeting of the European Strategy Group to prepare the Draft Strategy Document
- March 2013: approval of the Strategy Document by the CERN Council
- May 2013: transfer of the Strategy Document to the European Commission / European Competitiveness Council
- May/June 2013: adoption of the updated European Strategy for Particle Physics, joint session of the European Strategy Session of the CERN Council and the European Competitiveness Council, Brussels,

→ Status to be presented by T. Nakada

Agenda item 5: European Strategy for PP: update (2)

Input 2006:

- substantial scientific input from CHIPP to 'equip' the Swiss delegate
- CHIPP input complemented by guidelines from the State Secretariat for Education and Research SER, mainly regarding the role of CERN in the whole strategy
- The input document from 2006 has been distributed to the Board.

Input 2012:

- The CHIPP EB suggests to repeat this process.
- Use the 2006 CHIPP document as a first draft.
- Update and revise that draft where needed (like the roadmap has been updated in 2011 with the implementation paper).
- SER guidelines to accompany the scientific input (SER has agreed to this procedure).

Agenda item 5: European Strategy for PP: update (3)

Establishing a Working Group:

- small group (in 2006, the WG consisted of 5 members),
 - representing the different regions of Switzerland, the Cantonal Universities as well as the ETH domain,
 - disposing of a broad scientific competence.
- first draft available in March, circulation among the Board Members.
- final draft to be discussed and approved in the next Board meeting (13 June 2012)

Proposal:

Klaus Kirch, PSI (Chair); Antonio Ereditato, Berne; Thomas Gehrman, Zurich; Rainer Wallny, ETHZ; Martin Pohl, Geneva; **Olivier Schneider, EPFL**

The Board (applying Art. 27, litt. I) is requested to **approve** the composition of the WG (simple majority).

Agenda item 6: CHIPP Prize: revised procedure

- After three years of working with the present rules, the need to revise them slightly has been identified.
- Shortcomings: few applications, little involvement and interest of the Board Members in the selection process.
- Main changes:
 - PhD students may apply more than once → more applications
 - deadline one month earlier and reduced paperwork → assessment of applications before the holiday period; increased motivation
 - dedicated Selection Committee → selection is made by identifiable committee members, which leads to an increasingly professional selection.

The Board (applying Art. 27, litt. q) is requested to **approve** the revised procedure for the CHIPP Prize (simple majority).

Agenda item 6: CHIPP Prize: revised procedure (2)

Establishing the Selection Committee:

Intention:

- small group,
 - representing to the extent possible the different Swiss regions, the Cantonal Universities as well as the ETH domain,
 - disposing of a broad scientific competence,
 - including the wisdom (and the time) of Honorary Members.

Proposal:

Gilberto Colangelo, Berne (Chair); Maurice Bourquin, Geneva;
Aurelio Bay, EPFL; Peter Truöl, Zurich

The Board (applying Art. 27, litt. I) is requested to **approve** the composition of the Selection Committee for the CHIPP Prize (simple majority).

Agenda item 7: Calculation of the Membership Fee

- In Leysin: the Board decided to base the calculation on the share of Board Members per institution (approx. 2'500 CHF).
- Monday: possible damage to the image of PP is mentioned.
- Alternative proposed:
 - Small membership fee per CHIPP Member (approx. 100 CHF)
 - Loss of income covered by an institutional fee (see By-Laws § 6.1).

Proposal 1: substitute the present membership scheme (2'500 CHF/Board Member) with an individual membership fee of 110 CHF (value for 2012) to be invoiced collectively to each institution.

The Board (applying Art. 27. litt. k) is requested to **approve** the individual membership fee of 110 CHF for 2012 (simple majority).

Agenda item 7: Calculation of the Membership Fee (2)

- The decision of an individual membership fee of 110 CHF results in a loss of income of approx. 70 kCHF/year.
- This income is needed if the CHIPP Association wants to continue to be active, productive and well organised.
- The By-Laws (§ 6.1) allow for the membership fee being an 'institutional fee' to be decided bindingly by the Board.

Proposal 2: fix the institutional fee at 10 kCHF/institution and reduce the fees for Fribourg and Basel to 1, resp. 2.5 kCHF. This fee will gradually increase and reach 100% in 2014 (50% in 2012; 75% in 2013). One invoice per institution will be sent out.

The Board (applying Art. 27. litt. k) is requested to **approve** the institutional fee, and to **agree** to the levels of 10 kCHF, 2.5 kCHF and 1 kCHF, resp., and to the planned increase (simple majority).

Agenda item 8: CHIPP Association – Budget 2012

- Up to now: CHIPP activities were funded through the SUK and ETH-Rat contributions to the C15 project. The budget had to be discussed with these funding agencies.
- Now: CHIPP Association is responsible for its budget.
- Leysin decision: Budget normally presented in previous summer, except for 2012, where it will be presented in January 2012.

The Board (applying Art. 27. litt.u) is requested

- to **approve** the budget 2012,
- to **take note** of the financial plan 2013-2015.

Agenda item 8: CHIPP Association – Budget 2012 (2)

20.12.2011

	Comparison 2011	Budget 2012	Financial Plan 2013	Financial Plan 2014	Financial Plan 2015
Income	1'089'972	378'946	139'756	138'801	133'348
funds from C15	888'000	0	0	0	0
carry forward from previous year	201'972	320'123	51'522	21'156	15'702
contributions from Institutes	0	58'823	88'234	17'646	117'646
Basel	0	3'529	5'294	7'059	7'059
Bern	0	11'765	17'646	23'529	23'529
Geneva	0	10'588	15'882	21'176	21'176
Zurich	0	7'059	10'588	14'118	14'118
ETHZ	0	10'588	15'882	21'176	21'176
EPFL	0	10'588	15'882	21'176	21'176
PSI	0	7'059	9'412	9'412	9'412

Expenses	165'849	327'424	118'600	123'100	127'600
salaries C15 PostDocs	61'5640	200'338	0	0	0
funds returned to SUK	0	14'486	0	0	0
contribution to SCNAT	0	2'600	2'600	2'600	2'600
operations	98'607	102'500	106'000	108'000	110'000
Administrator	95'132	95'300	99'000	101'000	103'000
Webpage	0	3'549	3'500	3'500	3'500
travel expenses Admin.	3'000	3'000	3'000	3'000	3'000
other	475	651	500	500	500
Schools & Conferences	5'602	7'500	10'000	12'500	15'000

Reserves and carry forward	320'123	51'522	21'156	15'702	5'748
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Agenda item 8: CHIPP Association – Budget 2012 (2a)

10.01.2012

	Comparison 2011	Budget 2012	Financial Plan 2013	2014	2015
Income	1'089'972	371'933	98'819	29'529	-41'761
funds from C15	888'000	0	0	0	0
carry forward from previous year	201'972	320'123	44'509	-22'281	-93'571
contributions from Institutes	0	51'810	51'810	51'810	51'810
Basel	0	2'860	2'860	2'860	2'860
Bern	0	7'150	7'150	7'150	7'150
Geneva	0	8'140	8'140	8'140	8'140
Zurich	0	7'370	7'370	7'370	7'370
ETHZ	0	9'790	9'790	9'790	9'790
EPFL	0	10'450	10'450	10'450	10'450
PSI	0	6'050	6'050	6'050	6'050
Expenses	769'849	327'424	118'600	123'100	127'600
salaries C15 PostDocs	665'640	200'338	0	0	0
funds returned to SUK	0	14'486	0	0	0
contribution to SCIAF	0	2'600	2'600	2'600	2'600
operations	98'607	102'500	106'000	108'000	110'000
Administrator	95'132	95'300	99'000	101'000	103'000
Webpage	0	3'549	3'500	3'500	3'500
travel expenses Admin.	3'000	3'000	3'000	3'000	3'000
other	475	651	500	500	500
Schools & Conferences	5'602	7'500	10'000	12'500	15'000
Reserves and carry forward	320'123	44'509	-22'281	-93'571	-169'361

Agenda item 8: CHIPP Association – Budget 2012 (2b)

CHIPP Association
Budget 2012
Financial Plan 2013-2015

11.01.2012

	Comparison 2011	Budget 2012	Financial Plan 2013	Financial Plan 2014	Financial Plan 2015
Income	1'089'972	403'183	174'444	170'154	161'364
funds from C15	888'000	0	0	0	0
carry forward from previous year	201'972	320'123	75'759	55'844	47'054
contributions from Institutes	0	83'060	98'685	114'310	114'310
Basel	0	4'110	4'735	5'360	5'360
Bern	0	12'150	14'600	17'150	17'150
Geneva	0	13'140	15'640	18'140	18'140
Zurich	0	12'370	14'870	17'370	17'370
ETHZ	0	14'790	17'290	19'790	19'790
EPFL	0	15'150	17'950	20'450	20'450
PSI	0	11'050	13'550	16'050	16'050
Expenses	759'849	327'424	118'600	123'100	127'600
salaries C15 PostDocs	665'640	200'338	0	0	0
funds returned to SUK	0	14'486	0	0	0
contribution to SCNAT	0	2'600	2'600	2'600	2'600
operations	98'607	102'500	106'000	108'000	110'000
Administrator	95'132	95'300	99'000	101'000	103'000
Webpage	0	3'549	3'500	3'500	3'500
travel expenses Admin.	3'000	3'000	3'000	3'000	3'000
other	475	651	500	500	500
Schools & Conferences	5'602	7'500	10'000	12'500	15'000
Reserves and carry forward	320'123	75'759	55'844	47'054	33'764

Agenda item 8: CHIPP Association – Budget 2012 (3)

Income:

- Unused funds from the C15 project.
- Contributions from the institutes.

Expenditure:

- PostDoc salaries for the still running contracts.
- Final left-overs from the C15 project to be returned to SUK
- Membership contribution to SCNAT
- Operations (Administrator, Webmaster, ink, paper, internet and travel of Adm., ...) [based on past experience].
- Schools & Conferences.

Agenda item 8: CHIPP Association – Budget 2012 (4)

Numbers (reference budget):

- Income: 379 kCHF
- Expenditure: 327 kCHF
- Expected carry-forward to 2013: 52 kCHF.

Financial Plan:

- Contains a number of uncertainties and guesses
- Based on
 - Gradual increase of the contributions according to the Leysin decision
 - Steady increase for support to Schools & Conferences
 - Continued support by a 50% Administrator beyond 2013

Agenda item 9: CHIPP Long-Term Financial Tables

- The CHIPP Long-Term Financial Tables present a realistic view of the future needs for running and planned project participation.
- They contained initially just CERN related activities and have now been extended to other international research installations.
- The table contains investment and consumables as well as the so-called 'technical manpower' for FORCE and FLARE.
- The numbers are collected from the responsible project leaders and clarified with them, if needed.

Agenda item 9: CHIPP Long-Term Financial Tables (2)

- In the past, intensive discussions have taken place in the CHIPP Board, trying to establish priorities and to match the needs with the available funding.
- Thanks to the seriousness of the estimated participations and the rather generous FORCE funds, oversubscription has not been a big problem.
- The 2011 edition, however, shows extreme requests:
 - 7-12 MCHF/y for FORCE [available: 4.8 MCHF/y];
 - 4-10 MCHF/y for FLARE [available: possibly 1-2 MCHF/y starting in 2015]).
- The Lenkungsausschuss FORCE has requested that CHIPP re-introduces the discussions in the Board, aiming at moderating the ambitions.

Agenda item 9: CHIPP Long-Term Financial Tables (3)

The discussion about moderating the ambitions

- will take place in June (13 June 2012)
- will be based on the 2011 edition of the Long-Term Financial Tables (see FORCE and FLARE above)

The largest projects (LHC detectors upgrade, LAGUNA; DARWIN, CTA) will be requested to present their intentions, plans and financial needs.

The Board is requested

- to **take note** of the 2011 edition of the CHIPP Long-Term Financial Tables
- to **prepare** itself for a detailed and substantial discussion of the intended participation in large projects for the period 2014-2017.

Agenda item 10: Report on CHIPP activities (Sept.-Dec. 2011)

1. CERN Council → U. Straumann
2. FORCE requests for 2012
3. LA FORCE → M. Pohl
4. Workshops (NNN11, ...)
5. Outlook for 2012

Agenda item 10.2: FORCE requests 2012

FORCE: amounts requested for 2012 in 15 requests (status November 2011)

version 16 Nov 2011

Project	Experiment	amount	Positions (FTE)		author
			FTE	amount	
FORCE 2012: Operation and upgrade of the LHCb experiment	LHCb	406.7	100%	100.7	Straumann
FORCE 2012: High Precision CP Violation Physics at LHCb	LHCb	421.7	100%	88	Schneider
FORCE Request: Operations and Upgrades of the Electromagnetic Calorimeter of the CMS experiment at the LHC	CMS	238.7	100%	127.7	Dissertori
FORCE Request: Operation and Upgrade of the CMS Barrel Pixel Detector	CMS	735.8	100%	128.8	Wallny
FORCE – Support for CMS Tier-3 Analysis Facility	CMS	116.9	66%	107	Grab
FORCE 2012: Particle Physics at CERN	CMS, AEGIS	221	0	0	Amsler
FORCE - ATLAS Detector Upgrades at the CERN Large Hadron Collider (LHC)	ATLAS	604.4	100%	119.4	Iacobucci
FORCE: Proton-Proton Collider Physics with the ATLAS Experiment at CERN	ATLAS	456.4	90%	121.4	Weber
FORCE – GRID Infrastructure for LHC Experiments	GRID	954.1	100%	126.6	Grab
FORCE: Maintenance & Operations for the LHC Experiments 2012	LHC	1020.3	0	0	Nakada
	ATLAS 269 CMS 495.3 LHCb 256				
FORCE 2012: Development, fabrication and testing of a prototype CLIC accelerating structure with damping material for higher order mode and wake-field suppression	LHC / CLIC	120	0	0	Rivkin
FORCE Experimental High Energy Neutrino and Particle Physics and Search for Dark Matter in the Universe at CERN		538.6	0	0	Rubbia
	T2K 39.3 ArDM 60.6 LAGUNA-GLACIER 438.8				
FORCE- NA61/SHINE Experiment, R&D on Neutrino Projects at CERN (MICE, AIDA, LAGUNA-LBNO)		275	0	0	Blondel
	NA61 132 MICE 30 AIDA+LAGUNA 113				
FORCE Request: OPERA	OPERA	466.3	90%	116	Vuilleumier
FORCE Request: Investigation of Secondary Organic Aerosol Formation in the PSI Smog Chamber and at CERN	Cloud	243.75	15%	17	Baltensperger
Total (15 requests)		6819.65	861%	1052.6	

Agenda item 10.3: Lenkungsausschuss FORCE

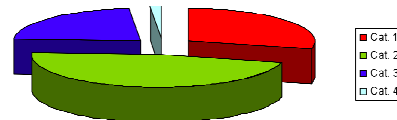
Meeting on December 5, 2011:

- SNF annual report FORCE 2011 (Blaser)
- Highlights and CHIPP planning tables 2010-2016 (Pohl)
distributed
- ETHZ, EPFL, PSI status of CERN projects (Baltensberger)
- Projections for 2012 (Blaser, Pohl, Straumann)
- Recommendations for 2012 priorities approved

FORCE Gesuche 2012

- Total Gesuche 6.8 MCHF
- 85% der möglichen Summe ausgeschöpft
- Nicht voll enthalten:
LAGUNA, AIDA (EU), AMS
- Obligator. Teil: 1.97 MCHF
- Verfügbar für nicht obligatorische Gesuche ~ 2.8 MCHF
- Total nicht obligatorische Gesuche ~ 4.8 MCHF
- Evaluert durch SNF

Klassifikation nach 2010 Prioritäten



Vorschlag FORCE Prioritäten in 2012

1. Priorität: Unterhalt, Betrieb und Computing der LHC Detektoren (Gemeinschaftsgesuche): M&O, Tier-2
2. Priorität: Konsolidierung und Weiterentwicklung von LHC und LHC-Detektoren: Detektor R&D, LHC Luminositäts-Konsolidierung und Weiterentwicklung R&D
3. Priorität: CERN approved experiments (wie NA61, DIRAC, OPERA, CLOUD, LAGUNA (neu), AIDA); Beschleuniger R&D (CLIC, neutrino beams)
4. Priorität: Recognized experiments am CERN, von gleichem wissenschaftlichen Standard (Evaluation und Begleitung) wie CERN approved experiments

Agenda item 10.3: Lenkungsausschuss FORCE cont'd

- Future of LA FORCE:
 - Starting 2013, FORCE, FINES and “FOLIS” instrument will be joined under a common roof: **FLARE**
 - Unfortunate confusion: name FLARE retained to replace both name of “FOLIS” and of the common roof, must be revised (action: SER)
 - Handed over to SNF via Leistungsauftrag, rough financial frame and relative weight specified
 - LA FORCE → LA FLARE in 2013, with current members plus astronomy representative, invited by SNF(!)
- My financial estimates, **not confirmed**:

	2013	2014	2015	2016
FORCE	4.8M	4.8M	4.8M	4.8M
FINES	0.9M	1.2M	1.3M	1.4M
“FOLIS”	-	-	1.1M	1.4M

Agenda item 10.4: Workshops

- NNN11 (12th International Workshop on Next Generation Nucleon Decay and Neutrino Detectors),
7-9 November 2011, Zurich:
 - A very wide international attendance (98 participants from Europe, North America and Asia) and extremely high level talks.
 - A very fruitful Workshop (see also <http://neutrino.ethz.ch/NNN11/>)
 - co-organized by ETHZ and Berne
 - discussed future large scale detectors for research on nucleon decays and neutrino physics
 - consisted of invited plenary talks and a small number of contributed talks addressing specific topics

Agenda item 10.5: Outlook for 2012

Planned activities for 2012

- submission of the NCCR request
- preparation/delivery of the Swiss input to the European Strategy Session
- collecting the contributions from the Board Members
- setting up the Selection Committee for the CHIPP Prize
- preparation/submission of the report regarding particle and astroparticle physics in the context of the CRUS survey on costly infrastructures
- plus the usual things (CHIPP Prize, CHIPP tables, joint M&O request for LHC experiments, school, workshops)

Agenda item 10.5: Outlook for 2012 (2)

Workshops & Schools 2012

- Zurich Phenomenology Workshop, 9-12 January
- CHIPP PhD School, 22-27 January
- Workshop on Astroparticle and Neutrino Physics, 5/6 March **(cancelled)**
- DarkAttack2012: Dark Matter in particle physics, astrophysics and cosmology, 15-20 July
- ZuoZ Summer School, 19-25 August
- European Strategy Session, 10-12 September
- CHIPP Plenary, 13/14 September
- Detector R&D, fall

Details: http://www.chipp.ch/documents/activities2012_20111114.pdf

Agenda item 11: Swiss PostDocs and PhD students

Introduction

- Successful mid-term workshop of the C15 PostDocs and PhD students (see http://www.chipp.ch/documents/C15_WS_summary_final.pdf),
- Theme: limited to LHC
- Most beneficial element: focus was on the speaker's own contributions

Idea

- Enlarge scientific topic
- Organise an annual gathering of the CHIPP PostDoc and PhD population

Agenda item 11: Swiss PostDocs and PhD students (2)

Proposal

- Bring together once per year as many CHIPP PostDocs and PhD students as possible
- Have their presentations focussed on their own contributions
- Combine this gathering alternating between the annual meeting of the SPS and the CHIPP Plenary.

The Board is invited to **discuss** this proposal and (applying Article 27, litt. q) to **approve** it (simple majority).

Agenda Item 12: Technology Transfer: Info to the Board

- Technology (and Knowledge) Transfer becomes more and more important (see also NCCR proposal)
- The CHIPP Board will have to discuss **HOW** it would like to be updated about this topic in the future
- Options are:
 - Update at each and every Board meeting
 - Update once per year
 - at one of the Board meetings?
 - at the Plenary?

Today: short exchange of view / preliminary discussion
→ Subject to be taken up later in the year.

Agenda Item 13 & 14: Next Meetings

- **Board:**

- 13 (Wed) June 2012; 1 p.m., Berne
- 7 (Fri) September 2012; 2 p.m., ETHZ

- **Plenary:**

13/14 (Thu/Fri) September 2012; Kartause Ittingen (Eastern Switzerland)

➔ Please adapt/block the dates in your diary