

Application form mySNF

Instrument **Mathematics, Natural sciences and Engineering (division II)**

Part 1: General Information

Basic data

Project Title FORCE: Maintenance & Operation for the LHC Experiments 2012
Project title in English FORCE: Maintenance & Operation for the LHC Experiments 2012

Research Field Mathematics, natural sciences
Main Discipline 20403 Particle Physics
University or college EPF Lausanne - EPFL

Applicant(s)

Main Applicant **Tatsuya Nakada**
 Other applicant(s)
 Claude Amsler
 Aurelio Bay
 Allan Clark
 Günther Dissertori
 Antonio Ereditato
 Felicitas Pauss
 Martin Pohl
 Olivier Schneider
 Ulrich Straumann
 Rainer Wallny
 Vincenzo Chiochia
 Hans-Peter Beck
 Michele Weber
 Giuseppe Iacobucci
 Christophorus Grab
 Roland Horisberger

Grant Application

Amount requested (CHF)	Total	1'020'300
Related to project no.	206620_135989	
Continuation envisaged	Yes	
Requested starting date	01.04.2012	
Duration (max. 36 months)	12	

Attachments

Research plan SciencePart_Nakada_final_20111028.pdf
 CV and publication list CV_Publist_Amsler.pdf
 CV_Publist_Bay.pdf
 CV_Publist_Clark.pdf
 CV_Publist_Dissertori.pdf
 CV_Publist_Ereditato.pdf
 CV_Publist_Pauss.pdf
 CV_PubList_Pohl_2011.pdf
 CV_Publist_Schneider.pdf

CV_Publist_Straumann.pdf
CV_Publist_Wallny2011.pdf
CV_Publist_Chiochia.pdf
CV_Publist_Beck_2011.pdf
CV_PubList_Weber.pdf
CV_PubList_Iacobucci.pdf
CV_Publist_Grab_2011.pdf
CV_Publist_Horisberger.pdf
CV_PubList_TN_FORCE2012.pdf

Documents to be sent by post

1. Responsible applicant

Surname	Nakada
First name	Tatsuya
Function (title)	Professor
Academic degree	Prof.
Date of birth	22.02.1955
Gender	male
Civil Status	Single
Language	German
Nationality	Switzerland
Correspondence address of application	Address of workplace

Home address

Address supplement	
Street, No.	Chemin de Chantavril 3a
P.O. Box	
Postcode / Zipcode	1260
Place	Nyon
Country	Switzerland

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratoire de Physique des Hautes Energies
Continuation 1 (e.g. inst /dept.)	SB-IPEP
Continuation 2 (e.g. University)	EPFL
Street, No.	
Address supplement 1 (e.g. building)	BSP 623
Address supplement 2 (e.g. office)	
P.O. Box	
Postcode / Zipcode	1015
Place	Lausanne
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 21 693 04 72
Switchboard	+41 21 693 11 11
Direct line	+41 22 767 98 58
Fax office	+41 21 693 04 77
Home telephone number	+41 22 362 81 36
Cellphone	
Website	
E-mail address	tatsuya.nakada@cern.ch

2. Other applicant(s)

General information

Surname	Amsler
First name	Claude
Function (title)	Professor
Academic degree	Dr./PhD
Date of birth	21.07.1947
Gender	male
Civil Status	Unknown
Language	French
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Physik-Institut
Continuation 1 (e.g. inst /dept.)	University of Zurich
Continuation 2 (e.g. University)	
Street, No.	Winterthurerstrasse 190
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	8057
Place	Zurich
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 44 635 57 24
Switchboard	
Direct line	+41 22 767 29 14
Fax office	+41 44 635 57 04
Home telephone number	
Cellphone	
Website	
E-mail address	amsler@physik.uzh.ch

General information

Surname	Bay
First name	Aurelio
Function (title)	Professor, Director of Laboratory
Academic degree	Dr./PhD
Date of birth	18.04.1955
Gender	male
Civil Status	Unknown
Language	English
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Lab. de physiques des Hautes Energies - LPHE
--------------------------------------------	----------------------------------------------

Continuation 1 (e.g. inst /dept.)	SB-IPEP
Continuation 2 (e.g. University)	EPFL
Street, No.	
Address supplement 1 (e.g. building)	BSP 616
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	1015
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Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 21 693 04 72
Switchboard	
Direct line	+41 21 693 04 74
Fax office	+41 21 693 04 77
Home telephone number	
Cellphone	
Website	
E-mail address	aurelio.bay@epfl.ch

General information

Surname	Clark
First name	Allan
Function (title)	Professor
Academic degree	Dr./PhD
Date of birth	03.01.1947
Gender	male
Civil Status	Unknown
Language	English
Nationality	Australia
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	DPNC
Continuation 1 (e.g. inst /dept.)	Section de Physique
Continuation 2 (e.g. University)	Université de Genève
Street, No.	
Address supplement 1 (e.g. building)	24, Quai Ansermet
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	1211
Place	Genève 4
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 22 379 63 69
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Fax office	+41 22 379 69 92
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Cellphone	
Website	
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General information

Surname	Dissertori
First name	Günther
Function (title)	LHP Project Manager for CMS Experiment
Academic degree	Prof. Dr.
Date of birth	24.11.1969
Gender	male
Civil Status	Unknown
Language	English
Nationality	Italy
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratory for High Energy Physics
Continuation 1 (e.g. inst /dept.)	Institute for Particle Physics
Continuation 2 (e.g. University)	ETH Zürich
Street, No.	
Address supplement 1 (e.g. building)	Schafmattstrasse 20
Address supplement 2 (e.g. office)	
P.O. Box	
Postcode / Zipcode	8093
Place	Zürich
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 44 633 20 31
Switchboard	
Direct line	+41 44 633 42 88
Fax office	+41 44 633 11 04
Home telephone number	
Cellphone	
Website	
E-mail address	dissertori@particle.phys.ethz.ch

General information

Surname	Ereditato
First name	Antonio
Function (title)	Ordinary Professor
Academic degree	Dr./PhD
Date of birth	02.06.1955
Gender	male
Civil Status	Unknown
Language	English
Nationality	Italy
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratorium für Hochenergiephysik (LHEP)
Continuation 1 (e.g. inst / dept.)	Albert Einstein Centre
Continuation 2 (e.g. University)	for Fundamental Physics
Street, No.	
Address supplement 1 (e.g. building)	Universität Bern
Address supplement 2 (e.g. office)	Sidlerstrasse 5
P.O. Box	
Postcode / Zipcode	3012
Place	Bern
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 31 631 40 64
Switchboard	
Direct line	+41 31 631 85 66
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Website	
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General information

Surname	Pauss
First name	Felicitas
Function (title)	
Academic degree	Prof. Dr.
Date of birth	26.03.1951
Gender	female
Civil Status	Unknown
Language	German
Nationality	Austria
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratory for High Energy Physics
Continuation 1 (e.g. inst / dept.)	Institute for Particle Physics
Continuation 2 (e.g. University)	ETH Zurich
Street, No.	
Address supplement 1 (e.g. building)	Schafmattstrasse 20
Address supplement 2 (e.g. office)	
P.O. Box	
Postcode / Zipcode	8093
Place	Zurich
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 44 633 20 31
-------------------------------------------------	------------------

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General information

Surname	Pohl
First name	Martin
Function (title)	Professor
Academic degree	Dr./PhD
Date of birth	18.09.1951
Gender	male
Civil Status	Unknown
Language	German
Nationality	Germany
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	DPNC
Continuation 1 (e.g. inst /dept.)	Section de Physique
Continuation 2 (e.g. University)	Université de Genève
Street, No.	
Address supplement 1 (e.g. building)	24, Quai Ansermet
Address supplement 2(e.g. office)	
P.O. Box	
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Place	Genève 4
Country	Switzerland

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General information

Surname	Schneider
First name	Olivier
Function (title)	PhD
Academic degree	Prof.
Date of birth	21.05.1961
Gender	male
Civil Status	Unknown
Language	French
Nationality	Switzerland

Address(es)

Address of institute

Name of Institution 1 (e.g. laboratory)	Lab. de Physique des Hautes Energies - LPHE
Continuation 1 (e.g. inst /dept.)	SB-IPEP
Continuation 2 (e.g. University)	EPFL
Street, No.	
Address supplement 1 (e.g. building)	BSP 623
Address supplement 2(e.g. office)	
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Place	Lausanne
Country	Switzerland

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General information

Surname	Straumann
First name	Ulrich
Function (title)	Professor
Academic degree	Prof.
Date of birth	22.06.1953
Gender	male
Civil Status	Unknown
Language	German
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Physik-Institut
Continuation 1 (e.g. inst /dept.)	Universität Zürich-Irchel
Continuation 2 (e.g. University)	Winterthurerstrasse 190
Street, No.	
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	8057
Place	Zürich
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 44 635 57 81
Switchboard	
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Fax office	+41 44 635 57 04
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Website	
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General information

Surname	Wallny
First name	Rainer
Function (title)	
Academic degree	Prof.
Date of birth	12.08.1969
Gender	male
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Language	German
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratory for High Energy Physics
Continuation 1 (e.g. inst /dept.)	Institute for Particle Physics
Continuation 2 (e.g. University)	ETH Zurich
Street, No.	
Address supplement 1 (e.g. building)	Schafmattstrasse 20
Address supplement 2(e.g. office)	HPK E26
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Postcode / Zipcode	8093
Place	Zurich
Country	Switzerland

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General information

Surname	Chiochia
First name	Vincenzo
Function (title)	Professor
Academic degree	Dr./PhD
Date of birth	04.01.1975
Gender	male

Civil Status	Unknown
Language	English
Nationality	Italy
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Physik-Institut
Continuation 1 (e.g. inst /dept.)	University Zurich-Irchel
Continuation 2 (e.g. University)	Winterthurerstrasse 190
Street, No.	
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	8057
Place	Zürich
Country	Switzerland

Communication

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Switchboard	
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Fax office	+41 22 767 83 40
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Cellphone	
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General information

Surname	Beck
First name	Hans-Peter
Function (title)	
Academic degree	PD Dr.
Date of birth	19.01.1965
Gender	male
Civil Status	Unknown
Language	German
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratorium für Hochenergiephysik
Continuation 1 (e.g. inst /dept.)	Physikalisches Institut
Continuation 2 (e.g. University)	Universität Bern
Street, No.	Sidlerstrasse 5
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	3012

Place	Bern
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 31 631 40 64
Switchboard	
Direct line	+41 22 76 11 94
Fax office	+41 31 631 44 87
Home telephone number	
Cellphone	
Website	
E-mail address	hans.peter.beck@cern.ch

General information

Surname	Weber
First name	Michele
Function (title)	
Academic degree	PD Dr.
Date of birth	21.11.1971
Gender	male
Civil Status	Unknown
Language	English
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	Laboratorium für Hochenergiephysik
Continuation 1 (e.g. inst /dept.)	Physikalisches Institut
Continuation 2 (e.g. University)	Universität Bern
Street, No.	Sidlerstrasse 5
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	3012
Place	Bern
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 31 631 40 64
Switchboard	
Direct line	+41 31 631 51 46
Fax office	+41 31 631 44 87
Home telephone number	
Cellphone	
Website	
E-mail address	weber@lhep.unibe.ch

General information

Surname	Iacobucci
First name	Giuseppe
Function (title)	
Academic degree	Prof. Dr.

Date of birth	20.06.1960
Gender	male
Civil Status	Unknown
Language	English
Nationality	Italy
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	DPNC
Continuation 1 (e.g. inst /dept.)	Section de Physique
Continuation 2 (e.g. University)	Université de Genève
Street, No.	24, Quai Ansermet
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	1211
Place	Genève 4
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 22 379 63 69
Switchboard	
Direct line	+41 22 379 62 45
Fax office	+41 22 379 69 92
Home telephone number	
Cellphone	
Website	
E-mail address	Giuseppe.Iacobucci@unige.ch

General information

Surname	Grab
First name	Christophorus
Function (title)	Senior Scientist, Chair CHIPP Computing Board
Academic degree	Prof. Dr.
Date of birth	24.12.1955
Gender	male
Civil Status	Unknown
Language	German
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	
Continuation 1 (e.g. inst /dept.)	Institut of Particle Physics
Continuation 2 (e.g. University)	ETH Zurich
Street, No.	Schafmattstrasse 20
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	

P.O. Box	
Postcode / Zipcode	8093
Place	Zurich
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 44 633 20 31
Switchboard	
Direct line	+41 44 633 20 22
Fax office	+41 44 633 12 33
Home telephone number	
Cellphone	
Website	
E-mail address	grab@phys.ethz.ch

General information

Surname	Horisberger
First name	Roland
Function (title)	
Academic degree	Prof. Dr.
Date of birth	23.02.1953
Gender	male
Civil Status	Unknown
Language	German
Nationality	Switzerland
Address(es)	Enter my own working address

Address of institute

Name of Institution 1 (e.g. laboratory)	
Continuation 1 (e.g. inst /dept.)	Labor für Teilchenphysik
Continuation 2 (e.g. University)	Paul Scherrer Institut
Street, No.	
Address supplement 1 (e.g. building)	
Address supplement 2(e.g. office)	
P.O. Box	
Postcode / Zipcode	5232
Place	Villigen
Country	Switzerland

Communication

Secretariat line (e.g. +41 31 643 44 55)	+41 56 310 2111
Switchboard	
Direct line	+41 56 310 3206
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Home telephone number	
Cellphone	
Website	
E-mail address	roland.horisberger@psi.ch

3. Basic data I

Original project title	FORCE: Maintenance & Operation for the LHC Experiments 2012
Project title in English	FORCE: Maintenance & Operation for the LHC Experiments 2012
Requested starting date	01.04.2012
Duration (max. 36 months)	12
Research field	Mathematics, natural sciences
Main discipline	20403 Particle Physics

4. Basic data II

Summary (Exerpt of the research plan, chapter 1)

The Large Hadron Collider (LHC), CERN's proton-proton collider, which ultimately will collide protons with a centre of mass energy of 14 TeV, operates flawlessly and to the full satisfaction of all scientists and technicians involved since mid-November 2009. Starting at a collision energy of 0.9 TeV and 2.36 TeV, the operation energy was immediately increased to 7 TeV. By October 2011, an integrated luminosity for ATLAS and CMS reached 5 fb⁻¹ each and for LHCb 1 fb⁻¹, well above the plan.

Starting in the mid-nineties, the world-wide particle physicist community has designed and developed four major detectors (as well as three smaller ones) designed to measure the reaction products at the interaction regions of LHC. Constructed with participation of industry, they were installed at the collision points to exploit the physics at the TeV scale. New insight into the nature of electro-weak symmetry breaking is expected and supersymmetric particles or extra spatial dimensions may be discovered from the direct observation of new particles and/or detecting deviations from the Standard model predictions in CP violation and rare decays through precision measurements.

The experiments record the reaction products at the interaction regions of LHC. They are run by the collaborations which measure and analyse the data to extract physics. CERN in its role as the host laboratory of the LHC accelerator provides the operation of the LHC accelerator complex, as well as infrastructure and basic service for the experiment. However, operation of the experiment is under the responsibility of the collaborations. This includes covering the specific cost associated to it, referred as "Maintenance and Operation cost" (M&O), which is composed of the following two categories:

- A) contribution to the daily running and maintenance expenses of the detector and collaboration, and
- B) provision of the scientific and technical manpower to ensure operations and the good working order of the sub-detector systems they have provided for the whole lifetime of the experiment of about 10 years.

The M&O requests and the distribution of these costs (A and B above) among the institutes, which is proportional to their participation, were approved by the Ressources Review Board RRB during its meeting on 17-19 October 2011, where all funding agencies are present. It must be noted that the M&O requests had been examined by a scrutiny group whose members were nominated by the RRB.

This FORCE request is coordinated by CHIPP (Swiss Institute for Particle Physics) and is a common request from of all institutes active in the LHC detector construction and operation. It summarises the Swiss contributions to the three LHC detector's design, construction, commissioning, operation and physics exploitation. It explains CERN's concept of maintenance and operation (including funding mechanisms) and gives an overview of the costs for 2012, which Switzerland is supposed to cover (according to the RRB agreement).

Keywords

LHC Experiment
ATLAS
Higgs
Supersymmetry
CP Violation
New Physics
Standard Model

Language of correspondence Financial administration	CMS
	LHCb
	German
	Finanzabteilung der Universität Zürich

5. Use-inspired project

Is your project use-inspired?	No
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6. Continuation of

Application	206620_135989 4: FORCE 2010: Maintenance & Operation for the LHC Experiments 2011
Remarks	Maintenance and Operation for the LHC experiment at CERN
Continuation envisaged?	Yes

7. Indirectly related to other research projects

Application/Project Type of relationship	134622 FORCE: GRID Infrastructure for LHC experiments
Application/Project Type of relationship	135188 FORCE: Construction of LHCb experiment
Application/Project Type of relationship	134940 FORCE: High Precision CP Violation Physics at LHCb
Application/Project Type of relationship	135134 FORCE: The CMS experiment at the LHC
Application/Project Type of relationship	134986 FORCE: Proton-Proton Collider Physics with the ATLAS experiment at CERN
Application/Project Type of relationship	135103 FORCE: Physics at the Large Hadron Collider at CERN
Application/Project Type of relationship	129499 FORCE: Particle Physics at CERN
Application/Project Type of relationship	134623 FORCE - CMS Tier-3 Analysis Facility
Application/Project Type of relationship	135453 Experimental Particle Physics at the LHC
Application/Project Type of relationship	132401 High-Energy Hadron Interactions at CDF/Tevatron and ATLAS/LHC

8. Revision of

9. University and institutional statement

University or college	EPF Lausanne - EPFL
Remarks	This request is implemented at CERN. The application is submitted by one of the Vice-Chairs of CHIPP (Nakada), which coordinates this joint M&O request on behalf of all Swiss institutes concerned (see section 9 below).
Institutional declaration (FC)	< None >
Remarks	This is a common request from the Swiss Particle Physics community. As there is no national Forschungskommission in Switzerland responsible for this type of joint endeavours, there is no institutional statement possible.

10. Collaboration (national and international)

Research group/institution	almost 400 institutions from all over the world
Country	Switzerland
Context	- CERN - University of Berne, University of Geneva, University of Zurich, ETH Zurich, EPF Lausanne, PSI, CSCS. At national level, the matter is coordinated by CHIPP.

11. Available or requested funds

Do you have access to additional funds?	Yes
Personnel and staff available	none
Available equipment	none
Amount allocated for apparatus, consumables, travelling expenses and other expenditure	Total 1'020'300 CHF ATLAS: sub-total: 269'000 CHF Cat. A: 192 kCHF Cat. B: Silicon strip tracking (SCT) 44 kCHF Cat. B: Liq. Argon Calorimeter (LAr) 10 kCHF Cat. B: Inner detector (IDGEN) 23 kCHF CMS: sub-total: 495'300 CHF Cat. A: 319.3 kCHF Cat. B: Pixel tracking 115.0 kCHF Cat. B: El.magn. calorimeter (ECAL) 61.0 kCHF LHCb: sub-total 256'000 CHF Cat. A: 175 kCHF Cat. B: Vertex locator (VELO) 40 kCHF Cat. B: Silicon tracking (ST) 41 kCHF
Infrastructure	none
Have you as applicant and co-applicant requested additional funds at the SNSF or at another funding body?	Yes
Please list what you have applied for: jobs, personnel, apparatus, infrastructure, consumables, expenses etc.	- other detector projects and GRID infrastructure see section 6 above; - the SUK (Projektgebundene Beiträge) grant - complemented by a grant from ETH-Rat - for the "Swiss Centre for Advanced Studies in Particle Physics in the LHC Era", submitted by the CHIPP (Swiss Institute for Particle Physics), continues with the remaining funds in 2012. The excellent PostDocs hired for LHC data exploitation under

this scheme continue their work; the low funding level by SUK/ETH-Rat is increased through funds from the institutes concerned (Universities of Berne, Geneva and Zurich, EPFL, ETHZ);

- with this effort at PhD level, the running ProDoc request for “Particle Physics in the LHC Era” complements the SUK/ETH PostDoc programme in an ideal way.

12. Requested positions, salaries and social security contributions

Overview positions (full time equivalents)

Allotment	Total %	Year 1
Academics		
Doctoral students		
Technician		
Auxilliary personnel		
Total %	0	0

Details

Last name	Nationality	Academic degree	Function	Salary bracket	Salary others, 1st year	Salary SNF, 1st year
First name	Gender	Since	Employment as a percentage (%)	Since	2nd year	2nd year
Date of birth	Number of children	Doctoral cand. since	Paid by SNF	Type of position	3rd year	3rd year
Subprojekt					4th year	4th year
					5th year	5th year

Total positions CHF

Allotment	
Academics	
Doctoral students	
Technician	
Auxilliary personnel	
Total CHF	

13. Requested Funding

Budget per year (overview)

Project

Allotment	Total SNSF (CHF)	Year 1
Equipment	1'020'300	1'020'300
Research funds		
Salaries		
Social security contributions		
Total SNSF (CHF)	1'020'300	1'020'300
Total SNSF (CHF)	1'020'300	1'020'300

Budget per year (detail)

Values in brackets represent items requested from other sources than SNF

No subprojects

	Total SNSF (CHF)	Year 1
Project		
Equipment		
Scientific equipment and components	1'020'300	1'020'300
Total SNSF (CHF)	1'020'300	1'020'300

14. Research requiring authorisation or notification

Research on humans	No
Research on human embryonic stem cells	No
Research on animals	No
Research on GMO or pathogens	No
Relevant regulations noted and accepted	Yes

15. General remarks to the project

Abbreviated designation Communication	<p>1. The Lenkungsausschuss FORCE - in agreement with the SNF - has recognized the mandatory character of the M&O contributions.</p> <p>2. The SNF has instructed the applicants to submit this request only after the RRB of 17-19 October 2011. The submission deadline is 31 October 2010.</p>
Confidential	No