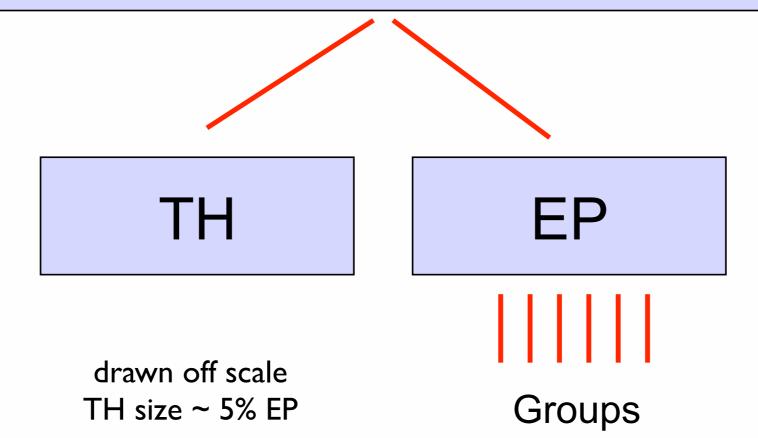
The Theory Unit at CERN

Department of Physics

Head, Deputies, Planning Officer...





Head of Department (DH)	Philippe Bloch	
DH Deputies	<u>Ignatios Antoniadis (TH)</u>	
	<u>Livio Mapelli (EP)</u>	
Department Planning Officer (DPO)	Jose Salicio-Diez	R. S.







- DH and DDH
 - Livio Mapelli Roger Forty (EP) Ignatios Antoniadis (TH)
- Department Planning Officer (DPO)
 - Catherine Decosse
- Department Personnel Officer (HRO)
 - Cécile Granier

In HR Dept.

- Human Resources Advisor (HRO)
 - Lore Taillieu

History

- CERN and TH division started in Copenhagen under the guidance of Niels Bohr
- Its main role is to be a center of excellence for theoretical high energy physics in all its aspects



Research

Support to experiments

Education & Training

-ducation & training



TH mandate

A facility for the community

Mandate

- Top quality theory group with excellence and creativity in research in ALL its vital areas
- Provide support to the experimental program of CERN and profit from its stimulating environment
- Reference center for the international theoretical physics community: a high quality place for getting theorists together, exchange ideas and collaborate.
- Contribute to training and outreach onsite and elsewhere: academic training, high school teachers, summer students, CERN schools, ...

Fields of activity

- Standard Model, Collider phenomenology
- Heavy ions
- Beyond the SM, including neutrinos and non-accelerator experiments
- Astroparticles and cosmology
- QFT and string theory
- Lattice field theory

Scientific output One paper/day Papers versus fields, CERN-TH 2007 Papers versus fields, CERN-TH 2009 phen: 226 phen: 197 gravity: 31 gravity: 12 theory: 106 lattice: 25 lattice: 13 astro: 55 Papers versus fields, CERN-TH 2011 astro: 37 theory: 81 phen: 237 gravity: 27 attice: 18 theory: 100 astro: 52

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Regular activities

wednesday mandatory assistance

Seminars I4h: tuesday string/QFT

thursday BSM forum

friday particle & astroparticle

monday string/QFT

Journal clubs : wednesday cosmo coffee

thursday cross collider

- TH institutes
- LPCC activities (LHC Physics Center at CERN)
- TH retreat
- TH pique-nique, TH Xmas party (2013: Wed 18 Dec)

Current staff

Indefinite (8)

Luis Alvarez-Gaumé
Ignatios Antoniadis
Gian Giudice
Martin Luescher
Wolfgang Lerche
Michelangelo Mangano
Gavin Salam
Urs Wiedemann

Fixed-term (13)

Roberto Contino
James Drummond
Stefano Frixione
Niel Lambert
Julien Lesgourgues
Agostino Patella
Gilad Perez
Boris Pioline
Slava Rychkov
Peter Skands
Andreas Weiler

Sergei Sibiryakov

Giulia Zanderighi

Admin

Michelle Connor Nanie Perrin Jeanne Rostand

System Manager

Elena Gianolio

EU contracts (FP7)

5 ERC advanced grants

(I.A., S. Ferrara, J. Ellis, M. Mangano, S. Dimopoulos)

one ERC junior grant (ended 2013):

(G. Servant)

2 ITN networks:

- UNILHC (ended 2013) I.A. coordinator from EP, C. Grojean in charge
- MCnet P. Skands

2 other networks:

- Citizen Cyberlab P. Skands
- Cost B. Pioline

Fellows, Associates and Visitors

- Every year we select ~13 MS fellows + 2 NMS.
 In addition a few agreements e.g. Korea, IKY-Greece
 + several European grants.
- 10-15 Paid Associates yearly
- ~ 500 paid short-term visitors (a few days to 2-3 months) + 300 unpaid
- TH institutes (about >1/4 of our visitors budget).
 A way to share our resources with the outside world
- ~ 25 doctorate students paid by external sources (national funds + european grants)

Fellows

- complete academic freedom
- traveling budget 6 kCHF over 2 years
- register your absences in EDH (official travel or holidays)
 Your office can be assigned to a visitor during your absence
- strict deadline 6 months for travel reimbursement
- ask a TH preprint number to the secretariat
- put your picture in the roster (TH web page)
- be involved in seminars / journal clubs organization
- shake up the staff for discussions / collaborations
 We may be busy but have always time for you
- Let us know your suggestions and criticism

Your stay at CERN is likely to be important for your future career, so you must benefit as much as possible

Make great discoveries!!

Enjoy the TH retreat

Many thanks Michelangelo for the organization

