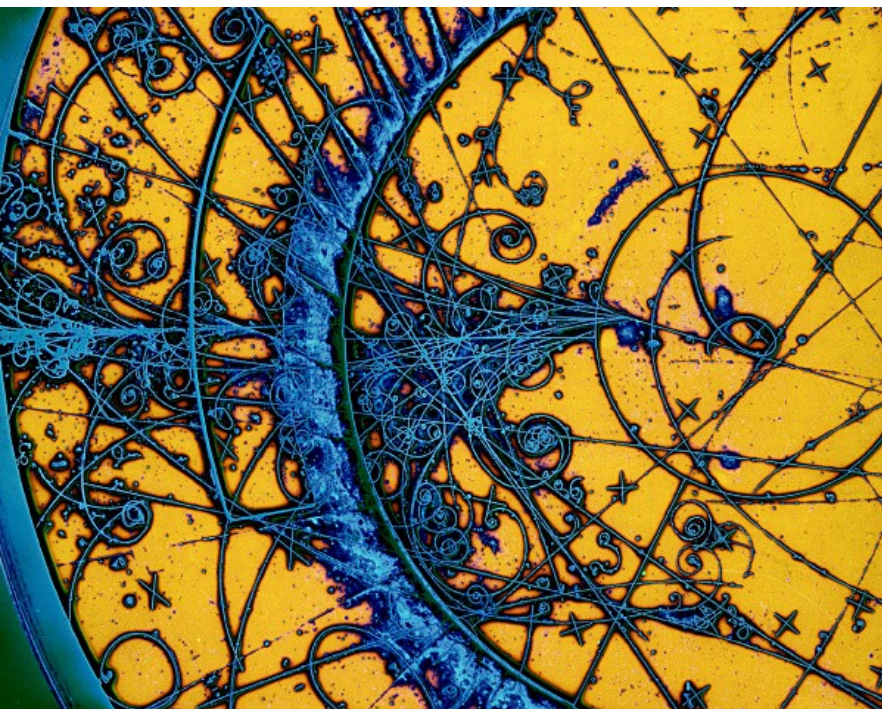


Summer 2009



©CERN

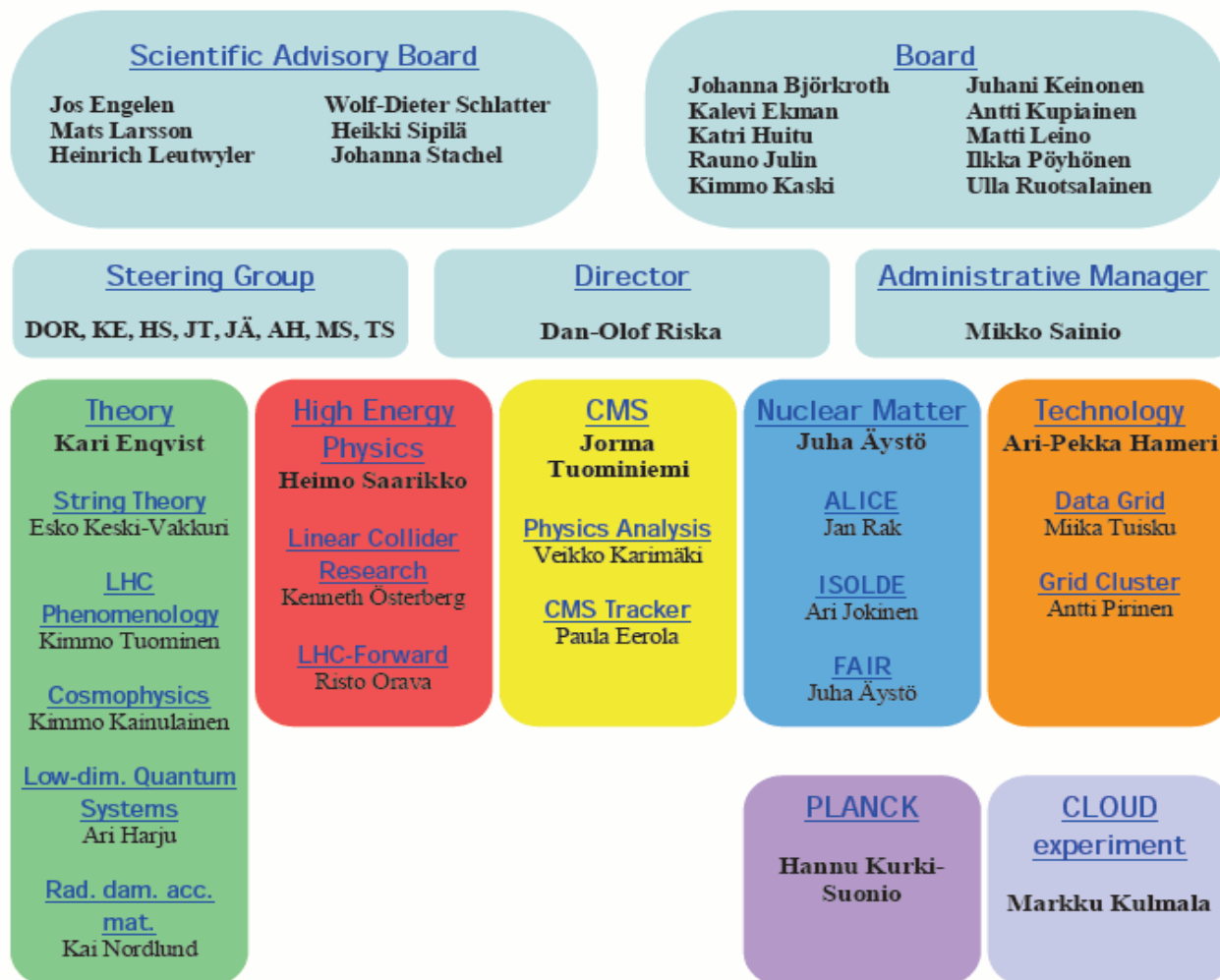
HIP & CERN

the European Organization for Nuclear
Research

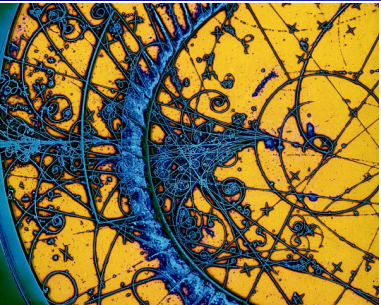
Background – What is HIP?

- Helsinki Institute of Physics (HIP)
 - is responsible for the Finnish research collaboration with CERN.
 - is jointly operated by
 - University of Helsinki,
 - Helsinki University of Technology,
 - University of Jyväskylä,
 - Lappeenranta University of Technology, and
 - Tampere University of Technology.
 - ~120 researchers (in 2008, ~ 92 FTE total, 24 FTE at CERN)
 - Five research programs
 - Budget ~4,5 M€

Structure of HIPin 2009



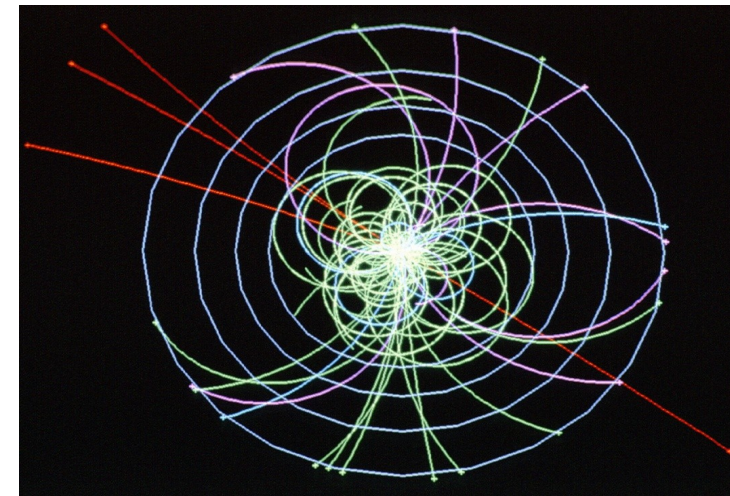
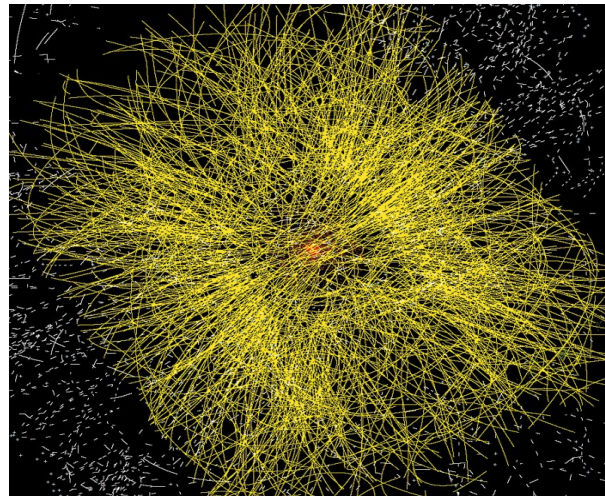
What is CERN



© CERN

- The world's largest particle physics laboratory
- Was founded in 1954, today 20 member states
 - ~ 2500 own staff,
 - ~ 8000 visiting scientists - they represent 85 universities and 85 nationalities
- Currently fixing the most powerful machine ever, Large Hardron Collider (LHC)
 - Energy $7 + 7$ TeV,
 - Installed in 27 km long tunnel about 100m underground
 - The question is: Does the Higgs boson exists?
 - We will get the answer in 2010(?).

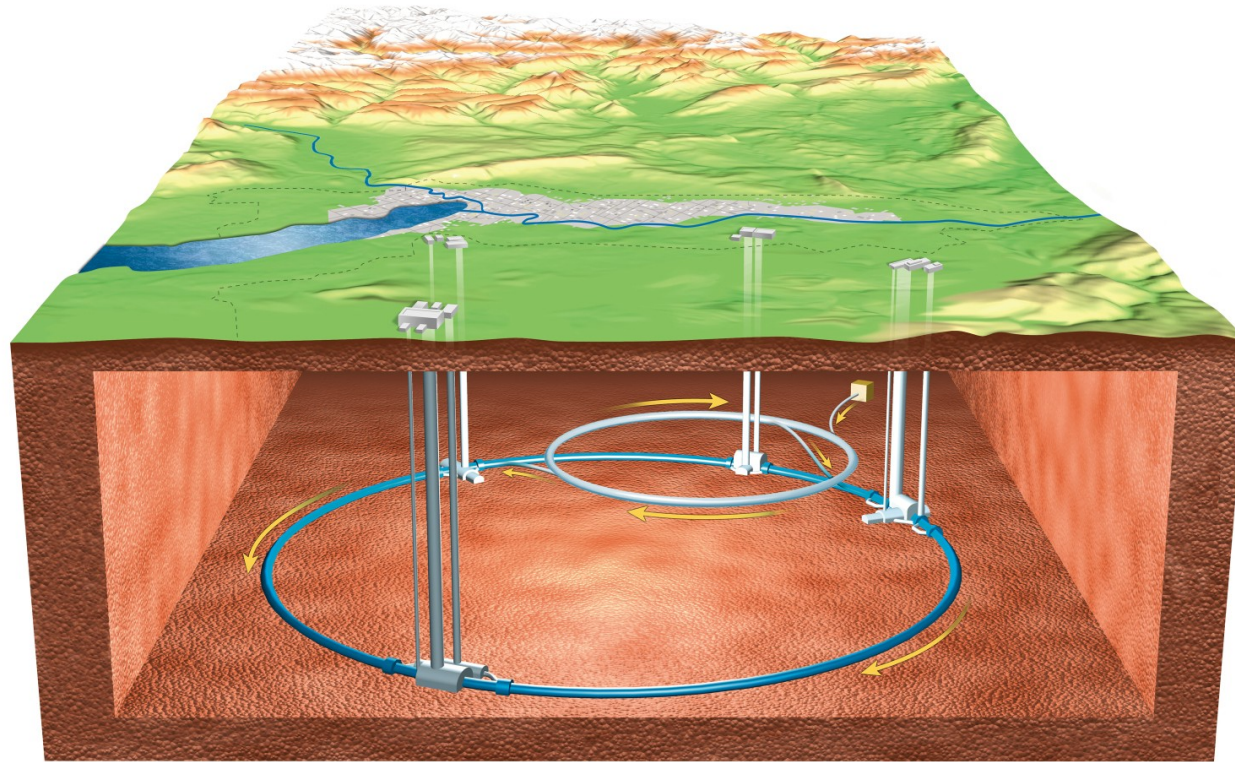
Large Hadron Collider



3 x ©CERN

- 600 000 000 events per sec → One event ~ 1MB
- After filtering from 100 to 1000 interesting events per second
- Total ~15PB of data in a year.

Large Hadron Collider



©CERN

Where is CERN?



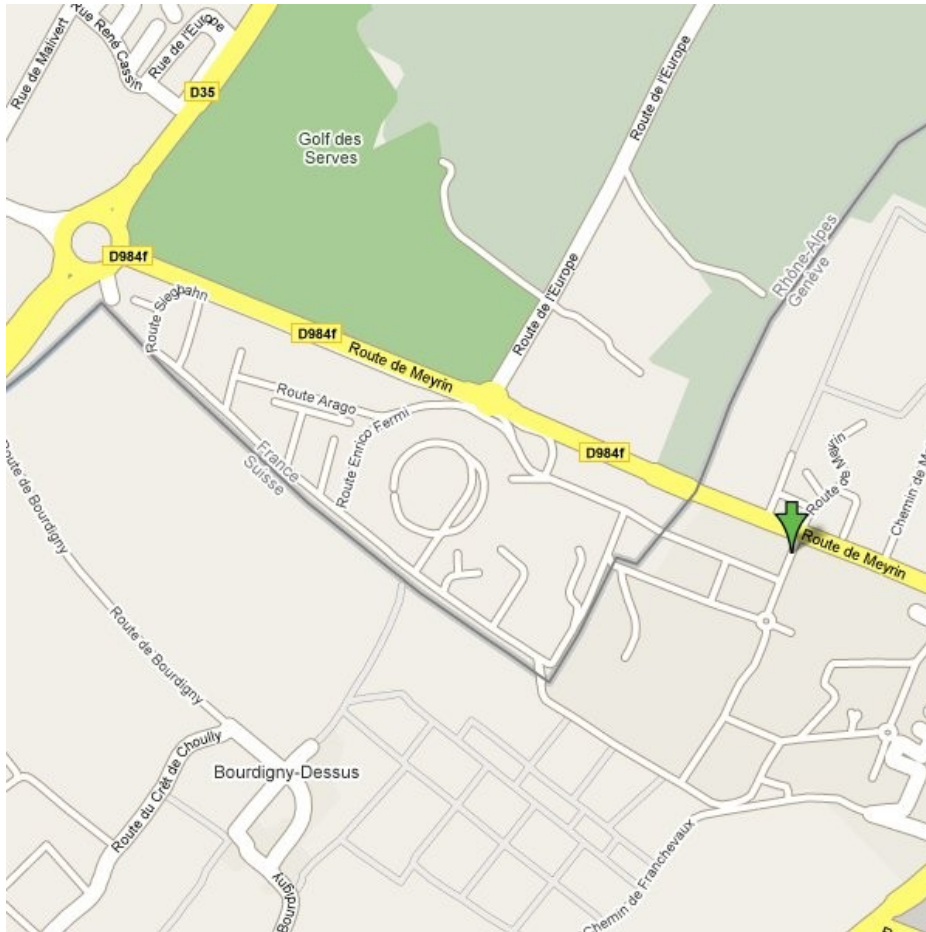
Where is CERN?



Where is CERN?



Where is CERN?



CERN



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CERN



CERN



CERN



Quick check list – part I

- In Finland
 1. Agree arrival and departure dates with your supervisor
 2. Ask the secretary of Suomi-toimisto to arrange the flight tickets
 3. Check that your passport is valid (maybe also your driving licence)
 4. Take the insurance
 5. Other personal arrangement

Quick check list – part II

- At CERN
 1. Visit Suomi-toimisto and sign in
 2. Visit CERN's user office and sign in
 3. Visit UBS and open a bank account
 4. Apply other accounts (IT accounts, access cards, etc.)
 5. Start actively looking for the accommodation
 6. Start the actual work...

Paper work in Finland

- Check the validity
 - Passport / Identity Card
 - Driving licence
- Take personal insurance
 - State treasure's (Valtiokonttori) insurance is valid only at work
 - Notice limitations in personal insurances (3000m, climbing, etc.)
 - Make sure you have the receipt (or equal) with you!
- Apply European Health Insurance Card from KELA
 - <http://www.kela.fi/in/internet/english.nsf/NET/090604144919EH?OpenDocument>

Paper work in Finland

- Take care of your mail
 - Change the delivery address or interrupt the delivery
 - <http://www.posti.fi/changeaddress/index.html>
- Take care of your bills during the summer
 - Direct debit for example
- Recommended to take some credit card with you
 - Both Visa and Master are OK
 - VisaElectron also works pretty well

Paper work in Finland

- Keep or hire out your accommodation in Finland?
 - One way to save some money but check what does your landlord think about this.
- Optionally inform Ministry for Foreign Affairs of Finland
 - <http://formin.finland.fi/public/default.aspx?nodeid=36581&contentlan=1&culture=fi-FI>
 - They have also some other good information
- Take photo copies of all important documents, just in case
 - A copy of passport etc. in email?

Health care

- You are regard equal to a traveller
 - Some good practices from Terveysten ja hyvinvoinnin laitos
 - http://www.ktl.fi/portal/suomi/julkaisut/oppaat_ja_kirjat/matkailijan_terveysopas/
 - Notice that you are “travelling” three months, it is “easier” to get medication from Finland
 - Allergies,
 - Other special medications

Accommodation

- Hostel for the beginning?
 - Ask Suomi-toimisto
- Different places where to find:
 - CERN housing service:
 - <http://housing-service.web.cern.ch/housing-service/>
 - University of Geneva:
 - <http://www.asso-etud.unige.ch/cite-uni/>
 - Glocals at Geneva:
 - <http://www.glocals.com/MarketPlace/HousingBoard/>

Accommodation

- Rents from 500€/month (studio) upwards...
- Notice: usually one must pay 2 months deposit
- Study local village names...
- Might be good idea to collect a group and rent an apartment together

Transportation

- One can (try to) borrow a bike from CERN
 - 100 CHF depost, returned when the bike is returned.
 - Or take your own bike with
- Public transport works in Geneva, also a bit at French side
 - <http://www.unireso.com>
 - Tickets from bus stops with coins (or with prepaid card)

Travelling

- By car – car rentals:
 - <http://www.gva.ch/en/desktopdefault.aspx/tabid-72/>
- By train:
 - <http://www.sbb.ch/en/index.htm>
- By airplane:
 - <http://www.gva.ch/en/desktopdefault.aspx/tabid-37/>

Other things

- Phone: one can buy pre-paid cards
- Shopping: Thursday afternoons and Saturdays
- Internet: works at CERN, in houses... maybe. Probably not.
- Summer is warm. I mean WARM. And probably there is no air conditioner...
- Working languages are English and French. However, give an attempt to learn French before hand...
- Dress code is very casual.

Other things

- CERN is closed 21st May and 1st June, 2009
- Tuija Karppinen is on vacation from 6th April to 17th April,
 - During this period contact [Taina.Onnela\(at\)cern.ch](mailto:Taina.Onnela(at)cern.ch)

Other “nice to have” things:

- Consider having these with you:
 - Fire alarm + flashlight
 - Maps (Google maps does not work without internet!)
 - MacGyver knife and duct tape: you can fix everything!
 - Dictionaries: English & French
 - First aid kit + thermometer (Burana, condoms, etc.)
 - ...

In case of emergency

- **Contact Suomi-toimisto**
CERN/PH – Tuija Karppinen & Taina Onnela
CH-1211 Geneva 23
tel. +41-22-76 73027
fax/EP +41-22-76 73600
- **Finland's Honorary Consulate, Geneva (Switzerland)**
Dominique de Weck, Honorary Consul
rue des Cordiers 14
1207 Genève
Tel: +41-22-786 42 66
E-mail: deweck@deweckperren.ch

Maybe interesting links

- <http://portal.hip.fi/Eapplication/asuminen.html>
- <http://www.geneva.info/>
- <http://user.web.cern.ch/user/Welcome.asp>

CERN – not only work but...



- New hobbies...
- New friends...
- New locations...
- New experiences...

Summary

- Be active, do things, and enjoy your summer!