



PicoSEC training on system integration



Hamburg, 26-27 May 2014



This research project is supported by a Marie Curie Early Initial Training Network Fellowship of the European Community's Seventh Framework Programme under contract number (PITN-GA-2011-289355-PicoSEC-MCNet)



WELCOME AT DESY



HAMBURG HAS ...



Big Ships

AND ...



Big Planes



AND ALSO ...



Big Science



DESY Mission: Development, construction, operation and scientific exploitation of accelerators

Provide access and services for national and international users

Base-Budget: ~ 190 MEuro
Funding source: 90% federal, 10% state
Staff: ~2000
Users: > 3000 (1500 from abroad) from 45 nations
2200 in photon science, 900 in particle physics

“Nationally funded, Internationally used”

DESY – two Sites - one laboratory



Hamburg.



Zeuthen.

1939 – Amt für physikalische Sonderfragen
1968 – Institut für Hochenergiephysik IfH
Akademie der Wissenschaften DDR
~1980 – wiss, Zusammenarbeit mit DESY
1.1.1992 – DESY Zeuthen

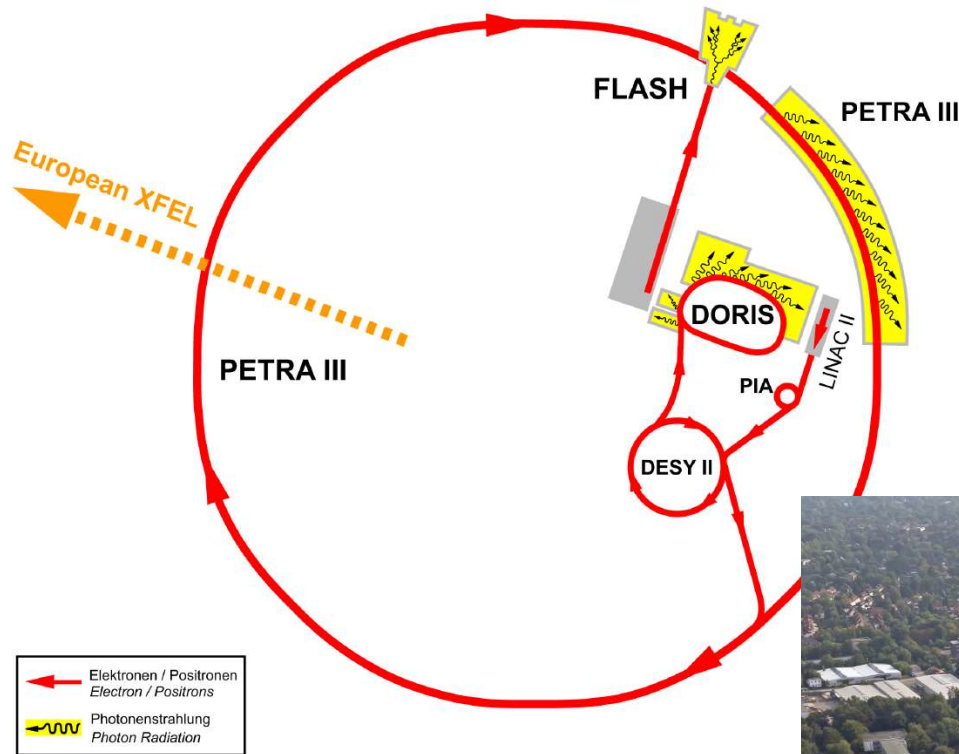
DESY Facilities.



HERA: ep collider (27+920 GeV) shut down in 2007



DESY Facilities.



FLASH

1st (soft) X-Ray Laser
„Ultrashort Science“

PETRA III

„Nanoscience“

Sweden, India, Russia
Will build beamlines





PICOSEC



CH CN DE DK ES FR GB GR

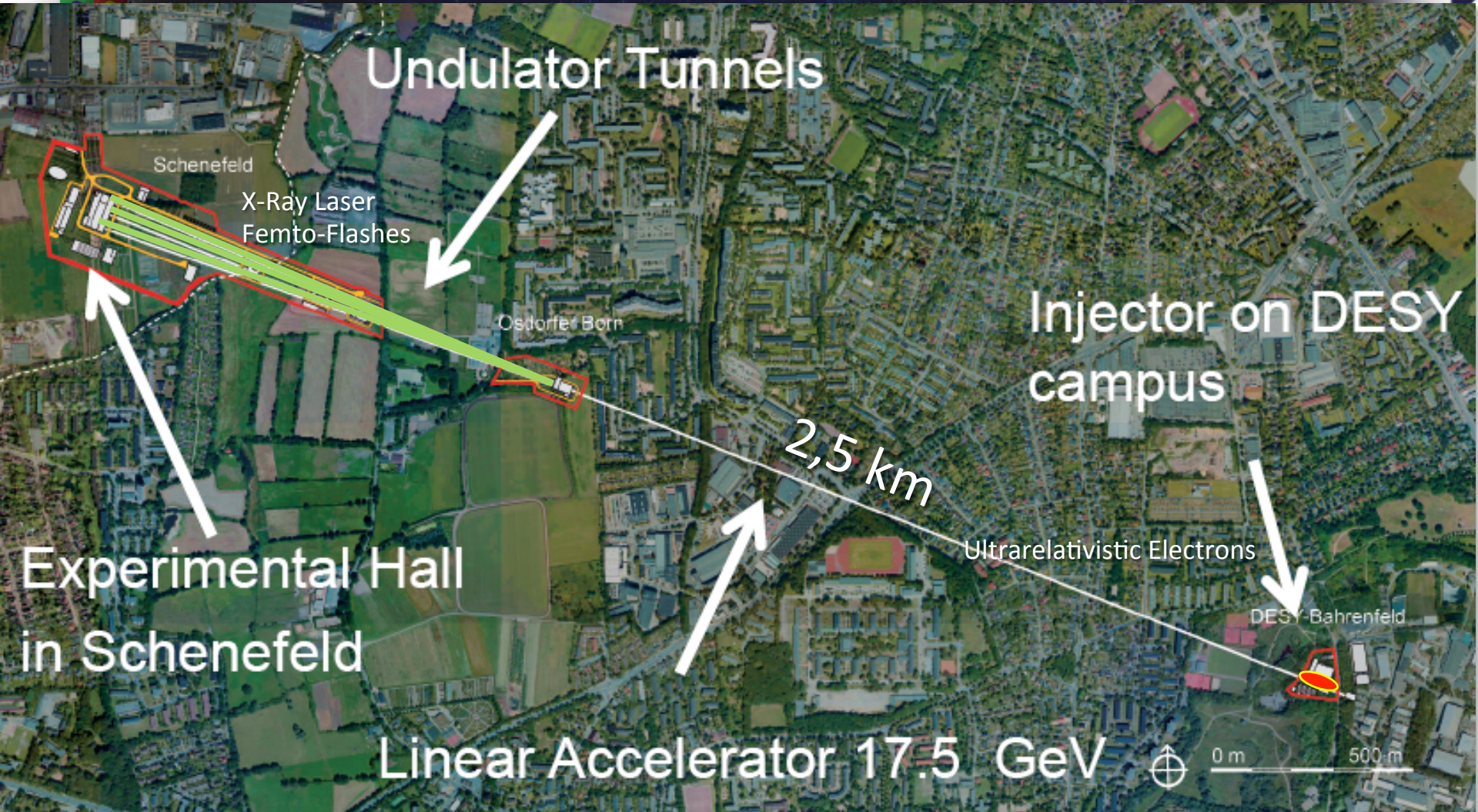
European XFEL



HU IT PL RU SE SK

European
XFEL

High Speed Camera for the Nano World



Undulator Tunnels

Schenefeld

X-Ray Laser
Femto-Flashes

Ostorf/Born

Injector on DESY
campus

2,5 km

Ultrarelativistic Electrons

DESY-Bahrenfeld

Experimental Hall
in Schenefeld

Linear Accelerator 17.5 GeV



0 m

500 m

DESY Partner at CERN/LHC



ATLAS Collaboration:

11 Scientists, 15 Postdocs, 12 PhD-Students, 2 Helmholtz Y Computing HH and Zeuthen, ATLAS remote Control room
TIER-2: Worldwide LHC Comp Grid, NAF

Arbeitsschwerpunkte:

„High Level Trigger“, Lumi-Detector ALFA (Teststrahl CERN Ltg. DESY)
ATLAS Data management Core-Activities

CMS Collaboration:

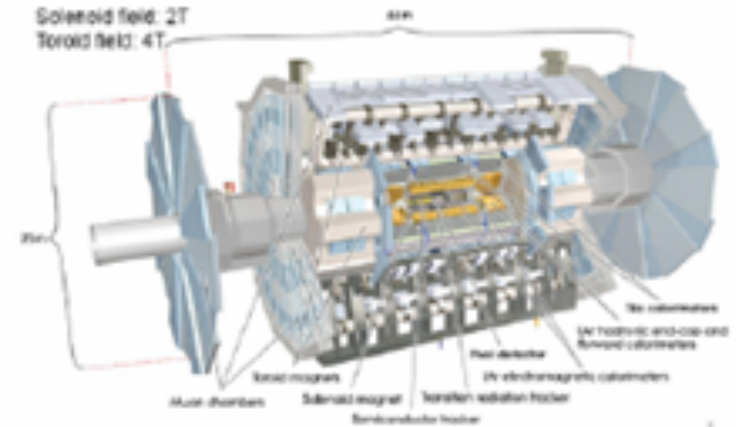
16 Scientists, 9 Postdocs, 8 PhD-Students
2 Helmholtz-YIG Higgs SUSY
TIER-2 (DESY-Aachen)

Arbeitsschwerpunkte:

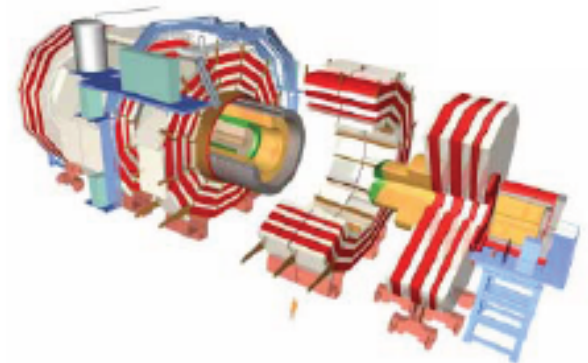
Coordination, CMS-Management Board, Calibration, Alignment (Tracking detector)
Castor Calorimeter, presently CMS tests mit cosmics

Participation at LHC detector upgrades

ATLAS

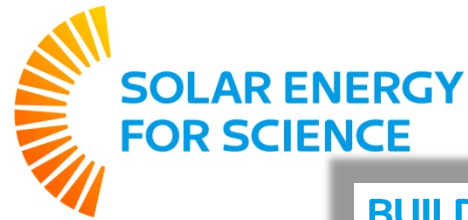
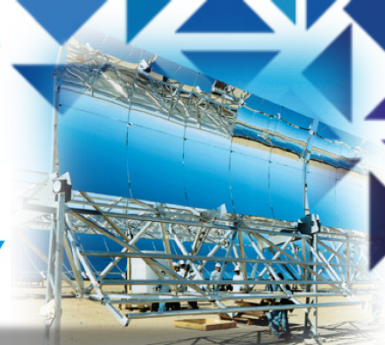


CMS





A New Energy/Science Partnership



Solar Energy for Science - DESY as Initiator:
Scientific Cooperation with MENA-Countries to
promote renewable energies

Symposium - 19./20. Mai 2011 DESY

Patronage: UNESCO

Chair: Klaus Töpfer

Speakers:

E.-U. v. Weizäcker, Moijb Latif

Hartmut Grassl, Herwig Schopper

Claudia Kemfert, Ottmar Edenhofer

UNESCO, OECD

Egyptian Academy

SESAME

+ 2 Nobel Laureates



BUILDING BRIDGES



**SYMPOSIUM
19/20 MAY 2011
DESY HAMBURG
GERMANY**

www.solar4science.de



Welcome to DESY!

Training schedule

All relevant info at: <https://indico.cern.ch/event/305684/overview>

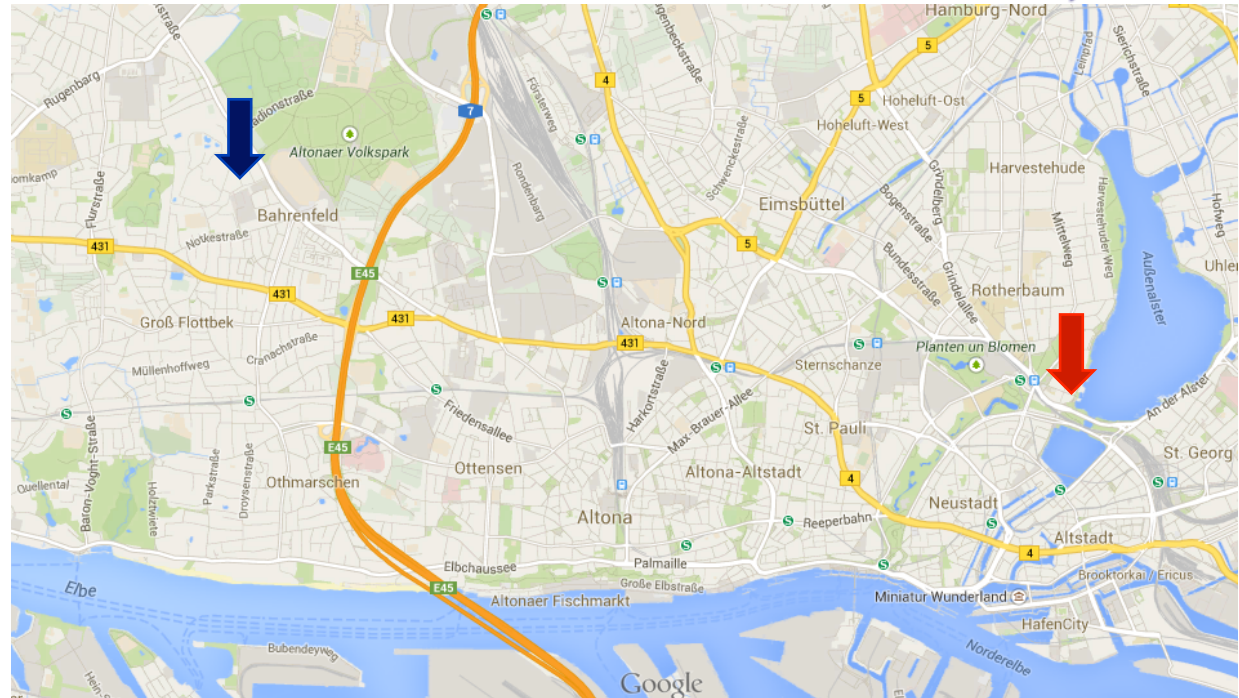
Monday 26/05

- **Registration: 8.00 – 8.45**
- **Lectures: 8.45 – 13.00** (coffe break at 10.15)
- **Lunch break: DESY canteen** (cost about 5 eur self-paid by the participant, vegetarian options available)
- **Lectures: 14.00 -18.15** (coffe break at 16.00)
- **Social dinner: 20.00** at Restaurant Portonovo

Social dinner

DESY

Restaurant Portonovo
Alsterufer 2, Hamburg
Monday, 20.00



Closest S-Bahn station: Dammtor.

From DESY:

- Take bus number 1 (direction Altona) till Othmarschen
- Take S1 (direction Airport/poppenbüttel) till Altona
- Take S31 (direction Neugraben) till Dammtor
- Walk along Alsterterrasse for 5 minutes

Total trip about 35'

*We can go together
directly after the
lectures*

Welcome to DESY!

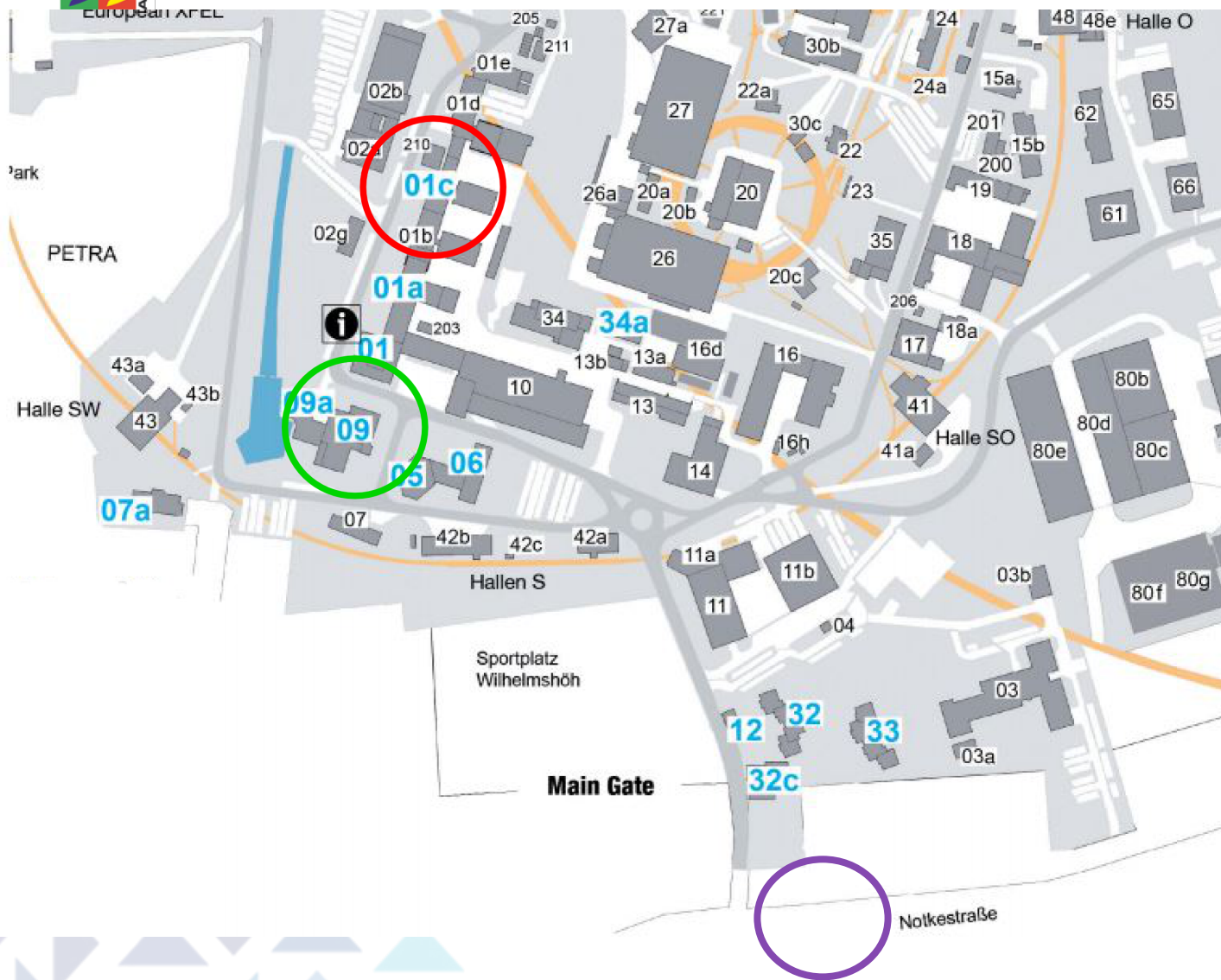
Tuesday 27/05

- Meeting point at **9:30**
- Introduction lecture and guided visit of DESY facilities (inside DESY campus): **9:30 – 13.00**
- Lunch break: DESY canteen
- Meeting at **13.55 SHARP!** at bus stop “Zum Hunengrab (DESY)” in front of main entrance → transfer to *XFEL Schenefeld* with public transport
- Visit at XFEL facility: **15.00 -17.00**
 - 1 h for introduction lecture
 - 1 h for tunnel visit
- Return to DESY expected at **18.00**



Rain is expected,
so please dress
up accordingly!

DESY Campus



- Lectures
- Lunch (DESY canteen)
- Bus Stop "Zum Hunengrab (DESY)"