

XXIV. International Symposium on Lepton and Photon Interactions at High Energies - Lepton Photon 2009

2nd Bulletin

1 Introduction

The Lepton Photon 2009 will be organised jointly by DESY and the University of Hamburg and takes place from August 17-22 2009 in Hamburg. This 2nd Bulletin provides you with more information about the conference venue and schedule to help you organising your trip to Hamburg.

2 Venue

The conference will take in the [Congress Center Hamburg \(CCH\)](#) which is conveniently located in the city centre of Hamburg, right next to the train station Hamburg-Dammtor.

*Congress Center Hamburg
Am Dammtor / Marseiller Strasse
20355 Hamburg*

3 Agenda

The Lepton Photon 2009 conference has only plenary talks. In addition a poster session will be organised to give younger researchers the opportunity to present their work at a major conference.

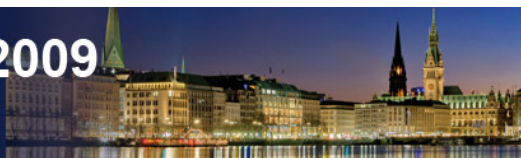
The agenda of the conference foresees:

- Pre-registration on Sunday, August 16th starting at 14:00.
- Plenary sessions on August 17-18 and August 20-21.
- The poster session will take place on Tuesday, August 18th.
- Wednesday, August 19th, will be reserved for the conference excursions.
- The closing plenary will take place on Saturday, August 22nd. The conference ends around 13:30 of that day.
- A social programme (c.f. section 13) completes the conference agenda.
- A programme for accompanying persons will be organised for the conference time (c.f. section 15).

The detailed scientific programme can be found in section 17.

4 Registration at the Conference

Conference participants will receive their conference pack with the programme, the invitation for the conference banquet dinner and the welcome reception as well as the tickets for booked excursions. A one-week ticket for the Hamburg public transport system is included in the conference fee. Pre-registration will be possible on Sunday, August 16th, from 14:00-20:00. On Monday morning the registration desk will open at 08:00. From Tuesday on, arriving participants are kindly requested to register at the conference secretariat which is located at the conference venue.



5 Webpage

The most up-to-date information about the conference can be found on the conference web-page at <http://lp09.desy.de>. Please check the page from time to time for updated information.

6 Secretariat

The conference secretariat can be contacted at:

Lepton-Photon 2009
c/o Michaela Grimm
DESY
Notkestrasse 85
22607 Hamburg
Germany
E-mail: lp09@desy.de

During the conference, a secretariat will be available at the conference venue.

7 Proceedings

The proceedings of the Lepton Photon 2009 will be published in print after the conference. Invited speakers will be asked to contribute to the proceedings. Also the selected participants for the poster session will get the opportunity to submit a short contribution to the proceedings. Further information for contributors will be distributed per e-mail shortly after the conference.

8 Poster Session

The poster session for young researchers will take place on Tuesday, August 18th. About 80 posters presenting the results of students and younger postdocs have been selected for display at the conference venue. The best posters will be awarded with a prize.

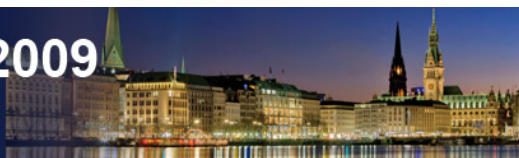
9 Computing

WLAN will be provided throughout the conference venue. Details on how to connect will be handed out during the conference registration. A pool of PCs will be available for conference participants. Power outlets and fixed-line network connections for notebooks will be available in a side room.

Speakers are kindly requested to deliver their talks (memory stick, download location) before the respective sessions to their assigned scientific secretaries. Accepted formats are PowerPoint, pdf or Apple Keynote.

10 Exhibition

An exhibition of publishers, book stores and industrial partners will be present throughout the conference at the conference venue.



11 Travel and Transport


11.1 Arriving by plane

[Hamburg Airport](#) is served by all major European airlines and has non-stop inter-continental connections to Newark (NY, USA) and Dubai (UAE). Most attendees will however need to change planes on one of the major European hubs (e.g. Frankfurt, Paris, London) on their way to Hamburg. If you arrive by plane, there are several possibilities to reach the CCH:

11.1.1 Taxi

Taxis are waiting just outside the arrival halls of Hamburg Airport. A trip to the CCH or the downtown hotels should take – depending on the traffic – about 20 to 30 minutes and will cost around 30 EUR. All Taxis in Hamburg can be recognised by their crème-white colour and the yellow/black Taxi sign on the roof. All Taxis in Hamburg have an official licence.

11.1.2 Local Train “S-Bahn”

The airport has a direct local train (“S-Bahn”) link to the city centre of Hamburg. Just follow the signs with the white/green  to the train station, which is located inside the airport terminal building. Take the train “S1” to Hamburg Central Station (“Hauptbahnhof”) and change to trains “S31” or “S21” which bring you directly to the station “Dammtor”. The CCH is right next to the station. The ticket price for a single trip from the airport to the CCH is 2.70 EUR. Ticket vending machines are located at the station and accept Euro coins and smaller bills. Trains run every 10 minutes, check the timetable at the [HVV webpage](#).

11.1.3 Rental Car

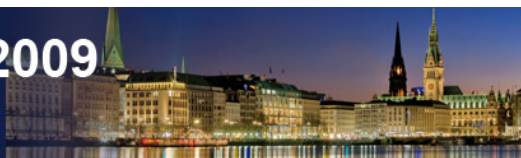
All major car rental companies are present at the airport. However, if you just plan to attend the conference, we suggest to do that without a car, as Hamburg has a well established and comfortable local transport network (c.f. section 12) and most conference hotels are in walking distance to the CCH.

11.2 Arriving by train

The train station “Hamburg-Dammtor” is located right next to the CCH and is served by most local and long-distance trains going to Hamburg. If your train terminates at Hamburg Central Station (“Hauptbahnhof”), please change there to the local train (“S-Bahn”) lines S31 or S21 to Dammtor. Railway schedules can be found on the web-pages of the [Deutsche Bahn](#).

11.3 Arriving by car

Check this [web-page](#) for driving instructions to the CCH and for parking information. Please note that parking in the city centre of Hamburg can be expensive. As most conference hotels are in close vicinity to the CCH, a car is not really needed for this conference.



12 Local transport

Hamburg has a very convenient local transport system comprising local trains (“S-Bahn”), underground (“U-Bahn”), buses and harbour ferries. Please check the web-pages of the [Hamburger Verkehrsverbund HVV](#) for time tables, fares, and maps of the different lines. Conference participants will receive a conference ticket with their welcome pack, which allows for unlimited rides in the Hamburg area for the duration of the conference.

13 Social Programme

A welcome reception for the conference participants and their accompanying persons will be held on the evening of Monday, August 17th 2009, at the [town hall of Hamburg](#).

The conference banquet will take place in the evening of Thursday, August 20th, in the [Schuppen 52](#), a historic warehouse right in the middle of the Port of Hamburg. A boat trip to the dinner location will be organised for all dinner guests. Dinner tickets for companions can be bought at the registration desk.

A classical organ concert will take place for the conference participants and their companions on Tuesday, August 18th in the main church of St. Jacobi, well known for its famous Arp-Schnitger-Organ.

Rolf-Dieter Heuer (CERN) will give a public lecture with the title “Teilchenphysik und das Dunkle Universum – 50 Jahre Teilchenphysik bei DESY” (in German language) on Friday, August 21st at 19:00.

14 Excursion Day

Wednesday, August 19th 2009, will be the excursion day of the conference. Several tours to interesting sights in and around Hamburg will be organised. Please check [the conference webpage](#) for descriptions of the tours. Tickets are still available, please contact us at lp09@desy.de for your reservation. Last-minute tickets will also be sold at the registration desk during the conference.

15 Companions Programme

An optional programme for accompanying persons will be offered during the conference. Sightseeing in Hamburg and excursions to the vicinity can be booked at the conference desk on a first-come-first-served basis. Please [download the programme details from the webpage](#).

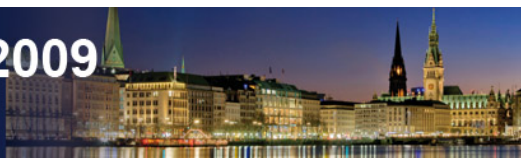
16 Weather

Hamburg has maritime weather with moderately warm and sometimes humid summers. The weather in August usually is fine with daytime high temperatures in the 20s (°C) which can reach occasionally the 30°C marker. During the night temperatures can fall sometimes even below 10°C, so better take a light pullover with you. And, being in Hamburg, it is never a bad idea to take an umbrella as rain showers are frequent even in August. Table 1 shows some weather data averaged



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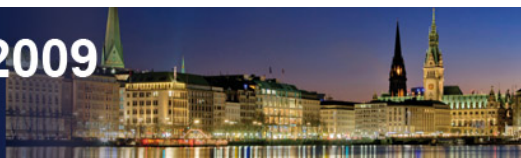
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over the months of August of the years 2000-2008.

Average low temperature (°C)	13.3 ± 1.1
Average temperature (°C)	17.9 ± 1.3
Average high temperature (°C)	22.6 ± 1.6
Average sunshine (h/d)	6,1 ± 1,1
Average number of days with rain	13,3 ± 5,4

Table 1: Weather data averages (2000-2008)



17 Scientific Programme

Sunday 16 August 2009

Pre-Registration (14:00-20:00)

Monday 17 August 2009

Registration (08:00-09:30)

Opening Session (09:30-10:15)

Welcome Addresses:

09:30 The State Secretary of the Federal Ministry of Education and Research Ms. QUENNET-THIELEN, Cornelia (BMBF)

09:45 The State Secretary of the Ministry of Science and Research Mr. REINERT, Bernd (Senate of Hamburg)

Coffee break (10:15-10:45)

Session 1: LHC (10:45-12:30)

10:45 Status of the LHC Machine Dr. BURKHARDT, Helmut (CERN)

11:20 Status of the ATLAS Experiment Dr. JON-AND, Kerstin (Stockholm)

11:55 Status of the CMS Experiment Dr. COUSINS, Robert (UCLA)

Lunch break (12:30-14:00)

Session 2: QCD I (14:00-15:45)

14:00 Proton Structure GLAZOV, Alexander (DESY)

14:35 QCD at Tevatron Dr. WOBISCH, Markus (Louisiana Tech)

15:10 Lattice QCD Dr. UKAWA, Akira (Tsukuba)

Coffee break (15:45-16:15)

Session 3: QCD II (16:15-18:00)

16:15 QCD at LHC Dr. GLOVER, Nigel (Durham)

16:50 Nucleon Structure at Low Energies Dr. HASCH, Delia (INFN Frascati)

17:25 Diffraction Dr. RUSPA, Marta (Torino)

Conference Reception (19:00-21:00)

Tuesday 18 August 2009

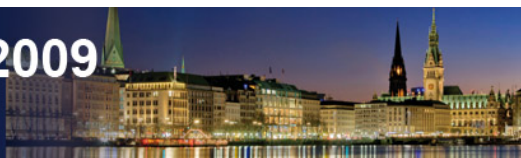
Session 4: Heavy Ion Collisions (08:30-10:15)

08:30 Recent Results from RHIC Dr. PEITZMANN, Thomas (Utrecht)



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09:05 Status and Prospects of ALICE Dr. BRAUN-MUNZIGER, Peter (GSI)

09:40 Theory of Heavy Ion Collisions Dr. RENK, Thorsten (Jyväskylä)

Coffee break (10:15-10:45)

Session 5: Searches I (10:45-12:30)

10:45 Rare Muon Decays and EDM Dr. MORI, Toshinori (Tokyo)

11:20 Search for New Physics at Low Energies Dr. JAECKEL, Joerg (Durham)

11:55 New Physics: Theoretical Developments Dr. GROJEAN, Christophe (CERN)

Lunch break (12:30-14:00)

Poster Session (14:00-15:45)

Coffee break (15:45-16:15)

Session 6: Searches II (16:15-18:00)

16:15 Higgs Searches at the Tevatron Dr. BERNARDI, Gregorio (Paris)

16:50 Status of Experimental Searches Dr. LOPEZ, Oscar Gonzales (CIEMAT Madrid)

17:25 Theoretical Predictions for Collider Searches Dr. POKORSKI, Stefan (Warsaw)

Conference Concert (19:00-21:00)

Wednesday 19 August 2009

Excursion Day

Please check the individual schedules for the excursions [on the conference webpage](#).

Thursday 20 August 2009

Session 7: Future Projects I (08:30-10:15)

08:30 Novel Detector Technologies Dr. YAMAMOTO, Hitoshi (Tohoku)

09:05 Linear Collider Dr. ELSSEN, Eckhard (DESY)

09:40 Novel Accelerator Technologies Dr. HOGAN, Mark (SLAC)

Coffee break (10:15-10:45)

Session 8: Future Projects II (10:45-12:30)

10:45 LHC Upgrades Dr. NESSI, Marzio (CERN)

11:20 Future B-Factories Dr. GIORGI, Marcello (Pisa)

11:55 Future Perspectives of Computing in HEP Dr. GEDDES, Neil (RAL)

Lunch break (12:30-14:00)

Session 9: Astroparticles (14:00-15:45)

14:00 High Energy Cosmic Rays Dr. MOSTAFA, Miguel (Colorado)

14:35 High Energy Gamma Rays Dr. PUNCH, Michael (APC Paris)

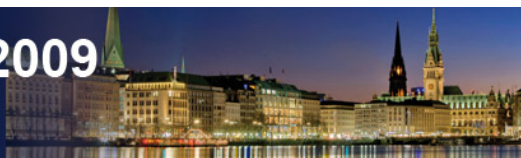
15:10 Neutrino Telescopes Dr. HULTH, Per-Olof (Stockholm)

Coffee break (15:45-16:15)



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Session 10: Gravitation and Cosmology (16:15-18:00)

16:15 Gravitational Waves Experiments Dr. FIDECARO, Francesco (Pisa)

16:50 Experimental Tests of Gravitation Dr. HOEDL, Seth (Washington)

17:25 New Developments in Theory Dr. KACHRU, Shamit (Stanford)

Conference Dinner (18:30-23:00)

Friday 21 August 2009

Session 11: Electroweak and Top Physics (08:30-10:15)

08:30 Top and Electroweak Physics at High Energies Dr. CANELLI, Florencia (Fermilab)

09:05 Electroweak Physics at Low Energies Dr. SHWARTZ, Boris (Novosibirsk)

09:40 Electroweak Physics from Low to High Energies Dr. DITTMAYER, Stefan (Freiburg)

Coffee break (10:15-10:45)

Session 12: Dark Matter and Dark Energy (10:45-12:30)

10:45 Searches for Signatures of Particle Dark Matter Dr. ATWOOD, Bill (Santa Cruz)

11:20 Direct Detection of Dark Matter Dr. SMITH, Nigel (RAL)

11:55 Dark Energy and Dark Matter (Theory) Dr. OLIVE, Keith (Minnesota)

Lunch break (12:30-14:00)

Session 13: Flavour Physics I (14:00-15:45)

14:00 Experimental Results on the CKM Matrix Dr. PRELL, Soeren (Iowa)

14:35 Rare B Decays Dr. IJIMA, Toru (Nagoya)

15:10 Heavy Flavour Spectroscopy Dr. BRODZICKA, Jolanta (KEK)

Coffee break (15:45-16:15)

Session 14: Flavour Physics II (16:15-18:00)

16:15 Status and Prospects of LHCb Dr. GOLUTVIN, Andrey (Imperial College/CERN/ITEP)

16:50 Flavour Physics Theory Dr. HILLER, Gudrun (Dortmund)

17:25 Kaons - Recent Results and Future Plans Dr. KOMATSUBARA, Takeshi (KEK)

Public Lecture (19:00-20:30)

19:00 Teilchenphysik und das Dunkle Universum – 50 Jahre Teilchenphysik bei DESY Dr. HEUER, Rolf-Dieter (CERN)

Saturday 22 August 2009

Session 15: Flavour and Neutrino Physics (08:30-10:15)

08:30 Recent Results on Tau and Charm Dr. WANG, Yifang (IHEP Beijing)

09:05 Neutrino Mass Dr. WEINHEIMER, Christian (Münster)

09:40 Neutrino Oscillations Dr. KOPP, Sacha (Austin)

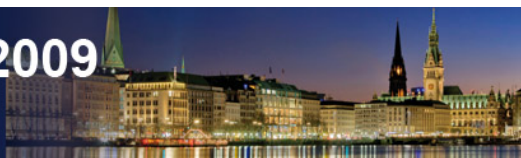
Coffee break (10:15-10:45)

Session 16: Neutrino Physics (10:45-11:55)



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10:45 Solar and Atmospheric Neutrinos Dr. SUZUKI, Yoichiro (Tokyo)

11:20 Neutrino Theory incl. Leptogenesis Dr. VALLE, Jose (Valencia)

Closing Session (11:55-13:30)

11:55 Report from the IUPAP Commission on Particles and Fields (C11) Dr. McBRIDE, Patricia (FNAL)

12:15 Poster Prize Award Ceremony Dr. BEHNKE, Ties (DESY)

12:30 Particle Physics in the LHC Era and Beyond Dr. ALTARELLI, Guido (Roma Tre/CERN)