Beamline for Schools
Welcome and Organization
## Participating Countries 2019

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of applications</th>
<th>Country</th>
<th>Number of applications</th>
<th>Country</th>
<th>Number of applications</th>
<th>Country</th>
<th>Number of applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania</td>
<td>6</td>
<td>Egypt</td>
<td>4</td>
<td>Italy</td>
<td>2</td>
<td>Sudan</td>
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</tr>
<tr>
<td>Argentina</td>
<td>1</td>
<td>Ethiopia</td>
<td>1</td>
<td>Malaysia</td>
<td>1</td>
<td>Sweden</td>
<td>3</td>
</tr>
<tr>
<td>Australia</td>
<td>4</td>
<td>Fiji</td>
<td>1</td>
<td>Mexico</td>
<td>3</td>
<td>Switzerland</td>
<td>1</td>
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<tr>
<td>Bangladesh</td>
<td>1</td>
<td>Finland</td>
<td>1</td>
<td>Netherlands</td>
<td>2</td>
<td>Syria</td>
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<tr>
<td>Belgium</td>
<td>1</td>
<td>France</td>
<td>1</td>
<td>Pakistan</td>
<td>7</td>
<td>Thailand</td>
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<tr>
<td>Bosnia and Herzegovina</td>
<td>1</td>
<td>Germany</td>
<td>4</td>
<td>Peru</td>
<td>1</td>
<td>Turkey</td>
<td>23</td>
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<tr>
<td>Brazil</td>
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<td>Greece</td>
<td>7</td>
<td>Philippines</td>
<td>1</td>
<td>Ukraine</td>
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<tr>
<td>Canada</td>
<td>2</td>
<td>Hong Kong S.A.R., China</td>
<td>2</td>
<td>Poland</td>
<td>1</td>
<td>United Arab Emirates</td>
<td>1</td>
</tr>
<tr>
<td>China</td>
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<td>Hungary</td>
<td>3</td>
<td>Reunion</td>
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<td>United Kingdom</td>
<td>10</td>
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<tr>
<td>Colombia</td>
<td>2</td>
<td>India</td>
<td>18</td>
<td>Romania</td>
<td>1</td>
<td>United States</td>
<td>8</td>
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<tr>
<td>Cyprus</td>
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<td>Indonesia</td>
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<td>South Africa</td>
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<td>Uruguay</td>
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<td>Denmark</td>
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<td>Iran</td>
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<td>Spain</td>
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<td>Vietnam</td>
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<td>Ecuador</td>
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</tr>
</tbody>
</table>

**Applications received: 178**
Beamline for Schools
participants 2014-2019

IN TOTAL: 1114 TEAMS PARTICIPATED WITH ABOUT 10000 STUDENTS FROM 84 COUNTRIES
The full programme can be found at: [https://indico.cern.ch/event/798962/](https://indico.cern.ch/event/798962/)

<table>
<thead>
<tr>
<th>Time</th>
<th>Today’s programme item</th>
<th>Speaker(s) / Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00 – 15:40</td>
<td>Welcome &amp; Organization</td>
<td>Sarah &amp; Barbara</td>
</tr>
<tr>
<td>15:40 – 16:00</td>
<td>Presentation of the teams</td>
<td>DESY Chain &amp; Particle Peers</td>
</tr>
<tr>
<td>16:00 – 17:00</td>
<td>Introduction DESY</td>
<td>Barbara / Paul</td>
</tr>
<tr>
<td>17:00 – 17:45</td>
<td>Visit of PETRA III synchrotron radiation facility</td>
<td>Paul</td>
</tr>
<tr>
<td>18:00</td>
<td>Dinner in DESY bistro</td>
<td>Barbara / Paul / Sarah to introduce</td>
</tr>
</tbody>
</table>
Tomorrow’s Programme

08:15 → 08:45  Get your lunch packages
Please get your lunch packages until 8h20 latest in the restaurant. Then we will go together to the bus station for the bus leaving at 08h41.

08:45 → 16:30  Sightseeing tour Hamburg
The filming crew will accompany us part of the day for the BL4S documentary.

08:45  Travel to city center

09:30  Visit of city center
Visit includes view into town hall, Memorial St. Nikolai and St. Michaelis church

11:30  Big harbour circuit tour
Lunch on ship with brought lunch packages from DESY

13:30  Walk to museum ship San Diego

13:45  Museum ship San Diego
Audioguides will be available

14:45  Walk to Elbphilharmonie

15:00  Plaza Elbphilharmonie

15:45  Travel back to DESY

18:00 → 19:00  Welcome reception
Publicity

Pictures of photographers
- DESY photographer and BL4S team
- Publicity via CERN’s & DESY’s social media, BL4S website...
- For your own use

Documentary
- Production of 10-15 minutes documentary
- Film crew will join 4 half days during the programme
- Don’t be shy – you are the stars 😊

Friends & families
- Laptop available for live vidyo chats

Instatakeover
- Share your experience and stories via DESY’s Instagram account

Yourself
- Possibility to share your own pictures
Your departure
(Sorry to talk about it already!)

On 28 October:
• Return your DACHS cards
• You can keep the adapters
• Team coaches: Return the keys and phones
• Remove food (if any) from the fridge

On 29 October:
• Leave your room keys in the hostel rooms
• Latest check-out time: 10:30 am

US team:
• Meet in front of the hostel at 3:30 am with your luggage

Dutch team:
• Meet in front of the hostel at 11:00 am with your luggage

To be returned:
DACHS card
Getting around on campus

Your main places:
- the hostel
- the test beam
- the canteen / cafeteria
- building 1

You all have a DESY map in your welcome bags – you may need it in the first few days.

Example of the building systematics:
Daily meeting is in room 01c/2.331
WiFi

1. Eduroam
   easy: use your eduroam login to connect to the eduroam network

2. DESY Guest
   Connect to the wifi network DESY Guest
   Fill in the form at https://guestnet-portal.desy.de and confirm by clicking „Register“
   Check your email for login credentials
   Log in to the DESY guest network with your credentials once per device

A guest network account is valid up to **10 days** and can be used with **five devices** at the same time.
⇒ You need to log in again after 10 days.
The DESY hostel

It's not a five-star hotel, but...

- ... it has kitchens and lockable fridge compartments
- and coin-operated laundry machines in the basement
- Breakfast is in the cafeteria from 7 am 🚶🏻‍♂️ 🚶🏻‍♂️ 🚶🏻‍♂️ 🚶🏻‍♂️ 🚶🏻‍♂️
- No smoking anywhere!

- Remember other residents may have been on shift overnight and respect their well-earned rest.

- Sadly there is neither spa nor gym – but the football pitch is across the road.
Fooooood

Your brains will need energy!

Rule of thumb: Breakfast and dinner are in the cafeteria, lunch is in the canteen. Same building.

There are food 12€-vouchers in envelopes within your welcome bags – one for each meal.

Hand over one voucher per meal at the checkout. You cannot split vouchers. The canteen will only charge us for what was consumed.

A few special meals are marked in the agenda.
More Food

Breakfast: Cafeteria, buffet style
from 7 am weekdays
from 8 am weekends

Lunch: Canteen
11 am to 2 pm weekdays
no canteen on weekends → special BL4S solutions

Dinner Cafeteria (called “Bistro service”)
from 5 pm to 11 pm
Burgers, pizza, salads etc. a la carte
Sightseeing (local)

You’re here to work and learn.
And to have an amazing time.

At DESY, you’ll get to see:
• DESY’s largest accelerator HERA
• PETRA III, most world’s brilliant accelerator-based X-ray radiation source
• the European XFEL – a 3-kilometre laser!

And you’ll get to meet lots of nice people who will be happy to show you even more cool places. Just ask!
Getting around outside DESY

Bus No 1 is your friend: it takes you to the subway system (S-Bahn), to other buses, to Altona, to the mall...

Buses leave every 10 minutes from outside the main gate near the hostel.

Always carry your HVV card!

For sightseeing tips come talk to me.

Some basics in walking distance:
Some basic German

Moin, moin!  
Danke!  
Tschüss!

Opening times: most supermarkets till 8 pm, some till 10 pm. The mall closes at 8 pm.

Bottles and cans have a deposit. Return them to the store to get some money back.
A typical day (not today 😊)

Every day at 9:00 general meeting in room 2.331 in building 1c ➔ Summary of current status and discussion of the plan of the day

Working in the control room in 3 shift crews
• The shifters should stay in the counting room for the entire shift
• Tasks: Control experiment and check data quality
• Times of shifts:
  • 09:30 – 13:00
  • 13:00 – 16:30
  • 16:30 – 20:00
• If you are not on shift:
  • You can analyze data in room EG.412 in building 1d
  • You have free time and can for example visit Hamburg on your own
# Shift crews and schedule

<table>
<thead>
<tr>
<th>Sift crew</th>
<th>Members</th>
<th>Day and time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>9:30 – 13:00</td>
</tr>
<tr>
<td>1</td>
<td>Cecile Ilja Charles Derek Sophie</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Janiek Abracha Arianna Lam August</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>Isabelle Frederiek Samuel Melody</td>
<td>1</td>
</tr>
</tbody>
</table>

Check details and changes on Indico!
Data analysis

Beamline for Schools 2019

Programme of the 2019 Beamline for Schools event

For all enquiries please contact Sarah Aretz:
e-mail: sarah.aretz@cern.ch
phone: 0041/754116540

Schedule for the data analysis

Wednesday, 16 October

09:00 → 15:00 Arrival of the teams, registration and check-in
Check In Time: 14h

15:00 → 15:40 Welcome and organisation
Introduction and distribution of welcome bags

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Volunteer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday, 20.10.</td>
<td>10:30 - 14:30</td>
<td>Chris Pollard</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14:30 - 18:30</td>
<td>Loïc Valery</td>
<td>(Loïc could also be there on Saturday afternoon)</td>
</tr>
<tr>
<td>Monday, 21.10.</td>
<td>9:30 - 14:30</td>
<td>Christian Sander</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14:30 - 18:30</td>
<td>Engin Eren</td>
<td></td>
</tr>
<tr>
<td>Tuesday, 22.10.</td>
<td>9:30 - 14:30</td>
<td>Will Leight</td>
<td></td>
</tr>
<tr>
<td></td>
<td>14:30 - 18:30</td>
<td>Christian Sander</td>
<td>(maybe until 5 pm)</td>
</tr>
<tr>
<td>Wednesday, 23.10.</td>
<td>9:30 - 14:00</td>
<td>Will Leight</td>
<td>Sponsor day from 14:30 - all students have to attend</td>
</tr>
</tbody>
</table>
If you need any assistance...

Call one of these numbers:
- Sarah (Project Manager): +41 75411 6540
- Markus (Technical Coordinator): +41 75411 0663
- Cristóvão (Support Scientist): +41 75411 1446
- Paul (Support Scientist): +49 151 72713427
- DESY emergency:
  from DESY phones 2500, from outside/mobile phones +49 (0)40 8998-2500
- Non emergency: CERN medical service 73802 (+41 22 76 73802)

Please respect these rules:
- Do not smoke inside of buildings and only in designated areas (or better not at all...)
- Do not eat or drink in the experimental area; in the control room it is permitted
- Act according to the code of conduct, which has been signed by you
Keep this in mind...

You are a scientist!
BL4S is not over on 29 October

We encourage you to:
• **Continue with the analysis** of the collected data when you are back at your school/university
• **Write a scientific paper** about the results of your experiment
  • We will help you publishing it in a scientific journal
• **Write a report** about your experience at CERN
  • This can be published on the BL4S website and/or journals

…. and don’t forget to become a physicist or engineer
Enjoy your stay at DESY
Any questions?