Beamline for Schools







BL4S edition 2017







Overview participants

	2014	2015	2016	2017
Full proposals	292	119	151	180
Countries	50	28	37	43

- 2/3 boys, 1/3 girls
- 1/3 from non member states
- In total ~7000 students have participated since 2014
- Two winning teams have written scientific papers about their experiment, one more is ready to be published





Overview participants

Country	Number of applications	Country	Number of applications	Country	Number of applications
American Samoa	1	Hong Kong S.A.R., China	1	Portugal	22
Argentina	3	Hungary	4	Qatar	1
Australia	3	India	30	Romania	14
Austria	3	Indonesia	1	Russia	6
Bahrain	2	Iran	12	Serbia	9
Bangladesh	3	Ireland	2	Singapore	9
Belgium	1	Israel	10	Slovakia	7
Bolivia	1	Italy	121	Slovenia	2
Brazil	10	Japan	1	South Africa	6
Bulgaria	2	Jordan	2	South Korea	1
Canada	19	Kenya	1	Spain	81
Chile	3	Lebanon	1	Sri Lanka	1
China	4	Malaysia	1	Sweden	1
Colombia	3	Malta	1	Switzerland	8
Czech Republic	3	Mauritius	1	Thailand	3
Denmark	1	Mexico	7	Timor-Leste	2
Egypt	3	Montenegro	2	Tunesia	1
Estonia	3	Netherlands	18	Turkey	49
Ethiopia	1	New Zealand	5	United Arab Emirates	1
Finland	2	Norway	2	United Kingdom	77
France	8	Oman	1	United States	50
Georgia	1	Peru	1	Vietnam	1
Germany	26	Philippines	4		
Greece	32	Poland	22	Applications received:	741





News corner

New layout of BL4S front page

New and better Cosmic Pi detector







A Beamline for Schools

Timeline BL4S 2018

- So far about 90 teams worldwide have already pre-registered
- Deadline for proposal submission is 31 March 2018
- Winners will be announced in June 2018
- Winning teams come to CERN in September 2018 (Council week)





Support of BL4S 2018

- Development of national contacts for students' questions
 - List can be found here: <u>National BL4S contacts</u>
 - ➤ The following countries represented in IPPOG are still uncovered (including two member states of CERN): Australia, Bulgaria, Ireland & Romania
 - No contact for: China (1400), Indonesia (261), Pakistan (193), Nigeria (185), Bangladesh (162), Russia (143), Mexico (127), Japan (127), Ethiopia (104), Philippines (104) Can IPPOG help here?
 - Additional contact persons for countries already in the list are very welcome
 - ➤ What have IPPOG members done so far to promote BL4S?





Organization of BL4S 2018

- Several pushes for promoting the competition
 - July, October & end of the year
 - Reminder in January/February
- List of channels expanded, but constantly looking for new ones
 - Science competition websites
 - Journals for science teachers
 - > ... (ideas?)
- Different materials available
 - Articles in different lengths
 - Pictures
 - Videos





Promotion of BL4S



Beamline for Schools: a successful story continues

You haven't heard of Beamline for Schools lately? Probably because we have been very busy in September. The winners of this year's edition have been at CERN to conduct their experiments.

The winning team from Italy has tested its self-designed and self-constructed Cherenkov detector while the Canadian team was looking for hypothetical

look at http://cern.ch/go/Cg6P if you want to know more and g exotic particles carrying a fractional charge.

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Get even more inspired by two videos that have been produced by members of the Canadian team:

https://www.youtube.com/watch?v=gl3av1EgGt8 https://www.youtube.com/watch?v=gF3BES_fy0Q&t

Winning BL4S has been an incredible experience for both the students and their teachers. Both teams have been received by the officials of their home town and have given interviews on national TV and radio stations. When we asked them how they would describe their experience the two words that were used by most of them were "life changing".

BL4S 2018 is in the starting blocks. Do not miss your life changing experience by participating in the competition. Pre-register now and submit your proposal by 31 March 2018!



Apply for CERN's 2018 Beamline for Schools competition

CERN is pleased to announce the 5th edition of the Beamline for Sci competition. Once again, in 2018, a fully equipped beamline will be available at CERN for students from around the world. What better \ learn about physics? As in previous years, two teams will be invited to C carry out their proposed experiments. The Beamline for Schools compe open to teams of at least 5 students aged 16 and up with at least or supervisor, or "coach". Think of a simple, creative experiment and sub written proposal and short video by the end of March 2018. Previous have tested webcams and classroom-grown crystals in the beamling have studied how particles decay and investigated high-energy ga



our team name and your coach's contact details no mail updates:

mline-for-schools.web.cern.ch/pre-registration-2

2018 - Proposal deadline

ur 1000-word proposal and 1-minute video (bot) nidnight CET.

3 - Winners announced

ounces about 20 shortlisted teams, two of thes

es will be agreed between CERN and the winn

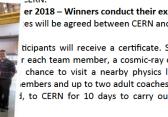
ticipants will receive a certificate. Shortliste embers and up to two adult coaches per ter



er 2018 – Winners conduct their experiment a

r each team member, a cosmic-ray detector chance to visit a nearby physics laborate d, to CERN for 10 days to carry out their

Join the adventure here: http://cern.ch/bl4s







Beamline for Schools 2017: a successful story continues

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Promotion of BL4S

The Winners' Proposals

BL4S VIPs

...and check their written proposals from here

BL4S Videos

CERN Official Videos

BL4S VIPs

The Winners' Proposals

Winners' post-competition media coverage

Hangout with CERN



Video ₱ by 2017 winner Andrew Mourcos - team "Charging Cavaliers" Video ₱ by 2017 winner Paul McKarris - team "Charging Cavaliers"

2014 Edition



Bastille



2016: Team Pyramid Hunters &

CERN Beamline Competition Video Proposal

Elementary particles visit Florence





Outlook 2019

- BL4S not feasible in 2019/20 due to LS2 & refurbishment of the East Hall
- Idea: Collaboration with partner institute
 - 4 interested institutes: DESY; PSI, INFN (Frascati) & IN2P3
 - ➤ Information about the competition and detailed work plan under institutes' review
 - Final decision to be expected in the next few months





Thank you very much!





