

Student Outreach Projects

ESHEP2016

Martijn and Nick
(presented by Martijn)

The 2016 European School of High-Energy Physics

Skeikampen, Norway 15 – 28 June 2016

Last Monday:


Monday, 20 June 2016



09:00 → 10:30	Outreach Training Part 1 Speaker: Tony and Chris
10:30 → 11:00	Coffee
11:00 → 12:30	Outreach Training Part 2 Speaker: Tony and Chris
12:30 → 14:00	Lunch + Free
14:00 → 15:00	Individual Outreach Exercises Part 1 Speaker: Tony and Chris
15:30 → 17:00	Flavour Physics 1 Speaker: Monika Blanke (CERN)
17:00 → 17:30	Coffee Br
17:30 → 18:45	Discussion Sessions
19:00 → 20:30	Dinner
20:00 → 21:00	Individual Outreach Exercises Part 2 Speaker: Tony and Chris

Today:

Sunday, 26 June 2016



09:00 → 10:30	Beyond the SM 2 Speaker: Benjamin Allanach
10:30 → 11:00	
11:00 → 12:30	Neutrinos 2 Speaker: Gabriela Barenboim (University of Valencia &
12:30 → 15:30	
15:30 → 17:00	Cosmology 2 Speaker: Igor Tkachev (Russian Academy of Sciences (R
17:00 → 17:30	
17:30 → 18:45	Discussion Sessions
19:00 → 20:30	
20:30 → 22:30	Student Projects

Why Outreach training?

- It is **becoming increasingly important** that we **communicate** what we are doing to the general public
 - View strongly endorsed by the Directors General of CERN and JINR
 - More and more funding agencies insist on this, and many provide dedicated funding for Outreach
- It is **not just old guys** who are involved :-)
- Students & postdocs play a very important role!
- **Whole range** of activities
 - Acting as guides to visitors (general public, delegations, VIPs, VVIPs)
 - Talking in Outreach events (e.g. talks to general public, school kids, etc.)
 - Interviews with journalists (newspapers, radio, TV, etc.)



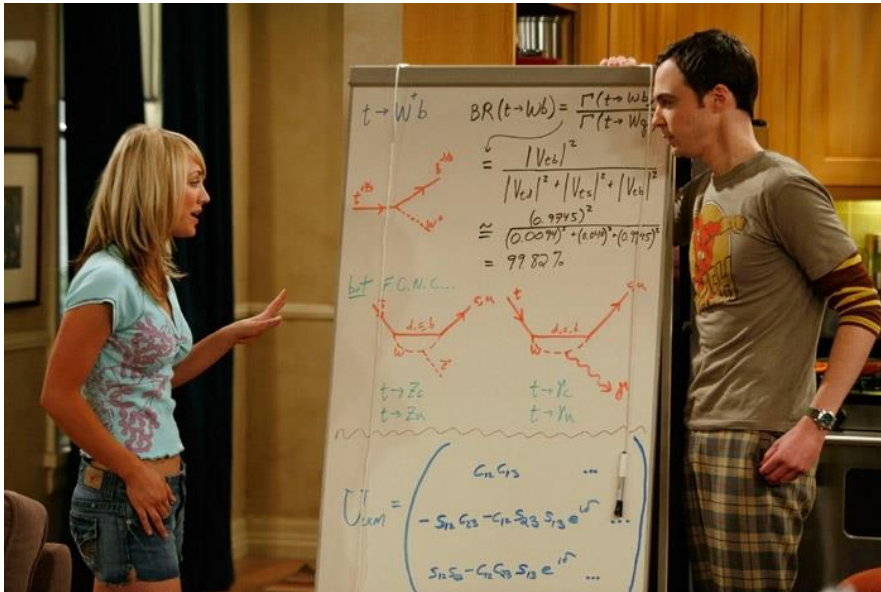
From: xxxx.xxxx@warnerbros.com

Subject: Warner Bros - The Big Bang Theory - Release Request - ESHEP Poster

I am contacting you on behalf of the Warner Bros. television series "The Big Bang Theory." The show would like to use the "2014 European School of High-Energy Physics, Garderen, the Netherlands 18 June-1 July" poster as represented in the attached release. Should you favor us with your consent, please sign and fax the release back to us at (818) nnn-nnnn, or you can email it to me at xxxx.xxxx@warnerbros.com.

Please feel free to contact us with any questions or concerns at (818) nnn-nnnn.

Thank you!



Science 9 May 2008:
vol. 320 no. 5877 pp. 740-741
DOI: 10.1126/science.320.5877.740

The 2014 European School of High-Energy Physics

Garderen, the Netherlands 18 June - 1 July 2014

Standing Committee <ul style="list-style-type: none">T. Dronova, JINRM. Eide, CERNM. Dauterive, CERNA. Belyaev, IHEPC. Pasca, CERN & Westwood, FR, (chair)R. Heide, CERN	Scientific Programme <p>Particle Physics and Cosmology</p> <ul style="list-style-type: none">L. Paul, ILL, France, (top)Future Prospects for LHC PhysicsE. Gounaris, CERNTheory OutlookB. Heide, CERN, Europe, the NetherlandsFlavour Physics and CP violationJ. P. Knapik, JINR and ILL, France, (bottom)Field Theory and the Higgs-Boson Standard ModelR. Heide, Radboud Univ., the NetherlandsQCDE. Lunz, Univ. Amsterdam, the NetherlandsNeutrino PhysicsA. Belyaev, IHEP, RussiaB. Pasca, CERN, Italy <p>High Energy Physics</p> <ul style="list-style-type: none">A. Belyaev, IHEP, Russia, SpainHigh Energy PhysicsD. de Boer, Univ. Santiago de Compostela, SpainSUSYT. Dronova, Secretary, (top)Practical Statistics for Particle PhysicistsW. de Boer, Radboud Univ., the NetherlandsPhysics Beyond the Standard ModelA. White, CERN & DESY, Germany	Discussion Leaders <ul style="list-style-type: none">P. A. Baikov, NIKHEF, the NetherlandsA. Belyaev, IHEPC. Dolan, JINR, FranceA. Giamprini, INFNC. Pasca, IHEP, the NetherlandsK. Sudrajat, IHEP, the Netherlands
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Enquiries and Correspondence

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Organising Committee
International Department
JINR P.O. Box 10390, Dubna, Russia
Tel: +7 49521 01461
Email: phd@yandex.ru

International Advisors

- L. Paul, ILL, France, (President), the Netherlands
- R. Heide, CERN
- V. Mitsou, IHEP
- K. Belyaev, IHEP, Novosibirsk, Russia
- N. Tsirintzis, IHEP, Protvino, Russia

Local Committee

- J. Burger, NIKHEF, the Netherlands
- E. Cronin, Radboud Univ., the Netherlands
- P. Franzen, Radboud Univ., the Netherlands
- O. Giamprini, INFN, the Netherlands
- P. de Boer, Radboud Univ., the Netherlands
- V. Mounier, NIKHEF, the Netherlands
- A. Belyaev, IHEP, the Netherlands
- R. Paul, NIKHEF, the Netherlands
- D. Stokrova, Radboud Univ., the Netherlands
- L. Wiggers, NIKHEF, the Netherlands

Deadline for Applications: 14 February 2014
<http://cern.ch/PhysicsSchool/ESHEP>

Logos: CERN, DESY, NIKHEF, ESHEP 2014 CERN JINR

The 2016 European School of High-Energy Physics

Skeikampen, Norway 15 – 28 June 2016

This year (season 9, episode 19) :



Projects: Each Discussion Group

- Prepare an **8-minute “outreach” presentation** about a topic in particle physics, at a level suitable for a general audience (e.g. other guests and staff in the hotel)
- To be presented by **one student** from your group
- **The order** of the talks will be **random**
- There will be a small **prize for the group with the best presentation**, determined by a special jury:
 - **Egil Lillestol, Chair** (Physicist, University of Bergen)
 - Winner of Norwegian Research Council award for communication of science:
 - The prize is to be given in order to "reward and stimulate the dissemination of research to a broad audience. The dissemination must be of high quality in both form and content."
 - **Hanne Dokka** (Norwegian high-school teacher with HEP background)
 - Winner of Norwegian Physical Society award excellence in teaching
 - **Kate Ross** (Administrator, CERN Schools of Physics)
 - **Gabriela Barenboim** (Physicist, University of Valencia)
- The presentations **will be recorded** and the videos will be put on our public INDICO web pages along with the material that is projected (Powerpoint, PDF, etc.)
 - Material from last year is used by Outreach colleagues, e.g. showing it to high-school students

Judging criteria:

1. **Content:** the content must be scientifically correct, and well chosen to suit the audience
2. **Clarity:** critical for effective science communication... the structure of the talk is important, and judges and audience should be able to understand the scientific concept chosen
3. **Inspiration and enthusiasm:** the audience and judges should be left inspired and enthused about science

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Group A

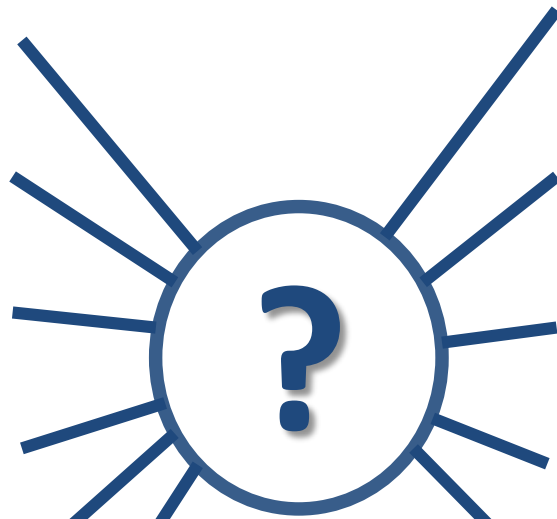
Group B

Group C

Group D

Group E

Group F



1. Higgs

2. The Standard Model EW+QCD
(not Higgs)

3. Heavy-ion Physics (Group D)

4. Flavour Physics and CPV

5. SUSY (Group A)

6. Extra Dimensions (Group C)

7. Compositeness (Group E)

8. Neutrino Physics

9. Dark Matter (Group F)

10. Cosmology [not DM] (Group B)

Programme

- Introduction (15 minutes)
- Talk 1 – 6, for each talk:
 - Presentation (8 minutes)
 - Questions (maximum 5 minutes)
- Deliberations of the jury (~15 minutes)
- Feedback and prize-giving (~5-10 minutes)
- Please stick to the time!
- We will give warnings after 5 minutes and after 7 minutes, **hard cut off at 8 minutes**
- Informal discussions can continue afterwards in the bar !!