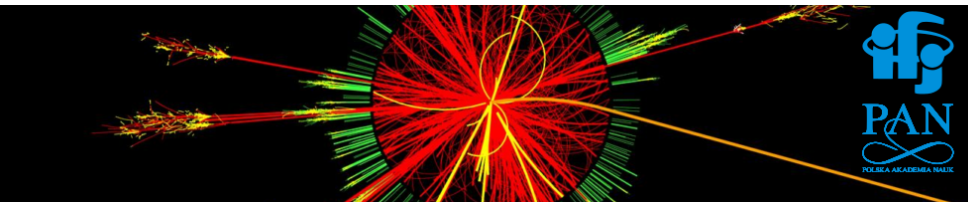


Particle Physics Summer Student Programme

Summary – Mini-conference

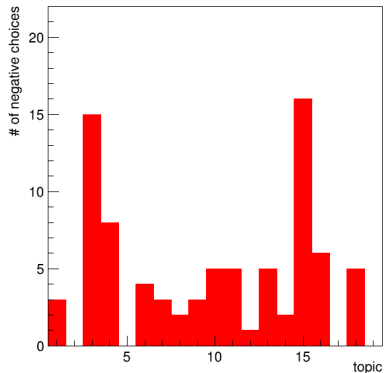
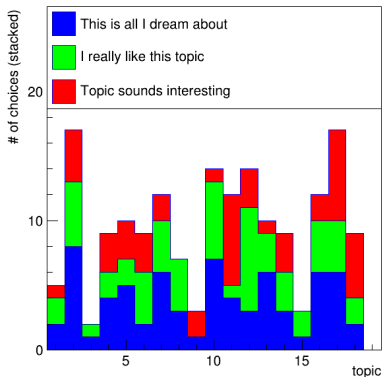
Maciej Trzebiński



Institute of Nuclear Physics Polish Academy of Sciences

30th July 2021

IFJ PAN PPSS Programme – Summary – Mini-conference



- Number of people assigned to topic with the highest self-declared weight¹: 29
- Number of people assigned to topic with 2nd highest self-declared weight: 5
- Number of people assigned to topic with 3rd highest self-declared weight: 2
- Number of people assigned to topic other than selected²: 0
- Number of people assigned to negative selection: 0

¹Not necessarily 'This is all I dream about' since in some cases the highest weight was simply 'Topic sounds interesting'.

²Excluding negative selections, but containing cases when no selection was done.

- During the last day of PPSS Programme (Friday 30/07) a mini-conference will be organized – you will present results of your projects.
- You are expected to actively listen to all presentations. After each talk feel encouraged to ask questions.
- **Duration of your talk should be exactly 10 min plus 2 minutes for questions (10+2).** Session conveners will strictly keep the schedule – after 10 min presenters will be asked to stop regardless on the progress (*i.e.* even if being in the middle of the talk).
- Presentations and records will be posted on the ppss webpage.
- Presentation is given by one or both students. It is up to you to decide. Presentation must not be given by tutor.
- After hearing all presentations you will vote for the best one:
 - Webpage: <https://ppss.ifj.edu.pl/vote/index.php>
 - Login and password are the same as for topic selection (please check old e-mails).
 - Rule 1: exactly three topics must be selected.
 - Rule 2: the same topic cannot be chosen more than once.
 - You have time until Friday July 30, 2021 13:05:00 CEST to vote.
 - Until this deadline you may change/update your vote.
 - **Please make a final decision after hearing all presentations!**

09:00 – 09:10	introduction	
09:10 – 09:22	Justyna Mędrala, Ralph Torres	Polarization measurement in B meson decays
09:22 – 09:34	Silje Oino, Bartłomiej Pierzchała	Search for CP violation in decays $B^0 \rightarrow D^* D^\pm$ in the Belle II experiment
09:34 – 09:46	Kacper Kinastowski	Monte Carlo generator of bremsstrahlung events for EIC
09:46 – 09:58	Fatemeh Nouri, Janusz Twardak	AFP event classification with machine learning
09:58 – 10:10	Bhupesh Dixit, Chin Zhe Tee	Reconstruction of exclusive jet events
10:10 – 10:22	Niki Gallou, Sara Ibrahim	Analysis of Cluster Shapes in the ATLAS AFP Detector
10:22 – 10:34	Jakub Garwoła, Krzysztof Szafrński	Optimization and training of neural networks for b-jet identification in the heavy ion collisions
10:34 – 10:46	Sridhar Hariharakrishnan, Siddharth Thakker	Study of b-jet production in the ATLAS experiment at the LHC
10:46 – 10:58	Asad Parihar, Kamil Zembaczyński	Charged particle production in Xe+Xe collisions
10:58 – 11:10	Giorgi Asatiani, Maria Ramos	Detection of Cosmic-Ray Ensembles
11:10 – 11:20	break	
11:20 – 11:32	Bartosz Grygielski, Clementine Mostyn	Bayesian Analysis of Cosmic Rays data for Earthquake Predictions
11:32 – 11:44	Caetano Ternes, Chirag Verma	Neutrino interaction studies in the near detector of the T2K experiment
11:44 – 11:56	Yash Arya, Roxana Busuioc	Geometry of heavy ion collisions during lepton pair production
12:56 – 12:08	Syed Jahan	Time-space evolution of the spectator in ultra-relativistic heavy-ions collisions
12:08 – 12:20	Stanisław Kalinowski, Javier Oliva del Moral	Central exclusive production of mesons in proton-proton collisions
12:20 – 12:32	Mikołaj Jędrzejewski, Ahmad Ramezani	Applying machine learning methods in data analysis
12:32 – 12:44	Harshit Dubey, Martine Irog	Searches for new physics effects in the light by light scattering in the ALICE experiment
12:44 – 12:56	Mikhail Kolobov, Mohammad Sharifi	Studies of UPC trigger efficiency of the light by light scattering in the ALICE experiment
12:56 – 13:05	voting	
13:05 – 13:15	break	
13:15 – 13:30	results and closing words	

Good luck!

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- **Please make a final decision after hearing all presentations!**

You did a fantastic job during the programme!

All presentations were very well prepared!

Congratulations to all the speakers!

1st place (13 votes)

???

2nd place (11 votes)

???

3rd place (9 votes)

???

1st place (13 votes)

???

2nd place (11 votes)

???

3rd place (9 votes)

Bhupesh Dixit and Chin Zhe Tee

Yash Arya and Roxana Busuioc

1st place (13 votes)

???

2nd place (11 votes)

Silje Oino and Bartłomiej Pierzchała

3rd place (9 votes)

Bhupesh Dixit and Chin Zhe Tee

Yash Arya and Roxana Busuioc

1st place (13 votes)

Giorgi Asatiani and Maria Ramos

2nd place (11 votes)

Silje Oino and Bartłomiej Pierzchała

3rd place (9 votes)

Bhupesh Dixit and Chin Zhe Tee
Yash Arya and Roxana Busuioc

- If you liked your project, feel free to contact tutors and ask about possibilities to continue (*e.g.* as a part of BSc./MSc. thesis or towards future interest in PhD at IFJ PAN).
- IFJ PAN has a PhD student programme:
 - please keep this in mind in case you will consider continuing you career in science,
 - applications are in June (1st round) and September (2nd round),
 - in order to apply you must have an agreement from (potential future) supervisor from IFJ PAN – this should be arranged in advance,
 - after you pass a (quite challenging) exam, you will join one of our research teams!
 - more details are on the doctoral school webpage:
<https://kisd.ifj.edu.pl/news/>.

Survey:

<http://ppss.ifj.edu.pl/eval.php>

**Hope to see you
as a PhD student at IFJ PAN or
at conference or
in one of the research facilities!**