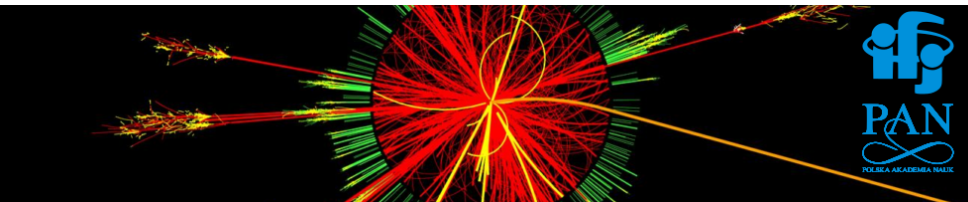


Particle Physics Summer Student Programme

Project Selection

Maciej Trzebiński



Institute of Nuclear Physics Polish Academy of Sciences

11th July 2019

IFJ PAN PPSS Programme – Project Selection

Access:

- room 0223 (coffee, microwave, fridge): access code
- room 0110 (microwave, fridge): free entrance
- room 0302: access code
- other rooms: keys

Keys and rooms – rules:

- you **must not** take keys outside IFJ PAN,
- all keys must be stored grey metal box in room 0223,
- last person leaving the room should lock the doors and leave the keys in room 0223,
- some rooms are empty, others were kindly been made available by IFJ PAN personnel:
 - do not re-arrange things in the room by yourself,
 - do not use nor take things which does not belong to you.
- try to keep room and desks clean.

Coffee machine:

- ask for the instructions before the first usage,
- keep the machine clean,
- empty drawer when full (also clean it), pour water if empty,
- payment – 'money mug'.

Fridge:

- do not take food nor drinks which do not belong to you,
- keep fridge clean.

- 1 Study of acceptance effects in angular analysis at Belle II experiment**
Supervisor: dr Karol Adamczyk, room 0212
Students: [Nadiia Maslova](#), [Bartosz Idzior](#), your room: 0108
- 2 Measurement of the direct CP violation in $B \rightarrow D^0 D_s^*$ decays using software from Belle II experiment**
Supervisor: dr Olga Werbycka, room 0214
Students: [Wiktor Mryka](#), [Marcin Rudziński](#), your room: 0108
- 3 Measurement of $B \rightarrow DD^{**} X$ decays in Belle II experiments**
Supervisor: dr hab. Andrzej Bożek, room 0211
Students: [Anna Fedorova](#), [Nermin Sadoun](#), your room: 0108
- 4 Measurements of the Silicon On Insulator (SOI) pixel detector using the semiconductor laser**
Supervisor: dr inż. Piotr Kapusta, room 0113
Students: [Javier Suarez](#), [Daniel Firak](#), your room: 0113
- 5 DbExplorer migration from Linux SLC6 to Linux CC7**
Supervisor: dr Elżbieta Banaś, mgr inż. Jolanta Olszowska, room 0221
Students: [Arkadiusz Kasprzak](#), [Jarosław Cierpich](#), [Grzegorz Podsiadło](#), your room: 0221
- 6 Search for invisible particles in exclusive processes at LHC**
Supervisor: dr Rafał Staszewski, mgr inż. Krzysztof Cieśla, room 0204, 0210
Students: [Michał Idziakowski](#), [Karolina Domijan](#), your room: 0210
- 7 Reconstruction of particle tracks using Deep Neural Networks and estimation of reconstruction errors**
Supervisor: dr hab. Marcin Wolter, room 0219
Students: [Karol Białas](#), [Mateusz Slysz](#), your room: 0204

- 8 Using Deep Neural for classification of multiparticle events**
Supervisor: dr hab. Marcin Wolter, dr Rafał Staszewski, room 0219
Students: [Jakub Česka](#), [Yogesh Verma](#), your room: 0204
- 9 Studies of properties of soft diffractive events based on output from Pythia Monte Carlo generator**
Supervisor: dr Maciej Trzebiński, room 0207
Students: [Łukasz Sokołowski](#), [Aleksandra Kukiełka](#), your room: 0112
- 10 Construction and tests of Arduino-based temperature readout**
Supervisor: dr Maciej Trzebiński, Konrad Kopański, room 0207
Students: [Aleksandra Ludwik](#), [Mateusz Marecki](#), your room: 0112
- 11 Charged particle production in Xe+Xe collisions**
Supervisor: dr hab. Krzysztof Woźniak, room 0206
Students: [Anton Svetlichnyi](#), [Kadir Tastepe](#), your room: 0213
- 12 Detection of Cosmic-Ray Showers**
Supervisor: dr hab. Krzysztof Woźniak, room 0206
Students: [Jerzy Pryga](#), [Weronika Stanek](#), your room: 0213
- 13 Search for the new physics in the ATLAS detector at the LHC**
Supervisor: dr Bartłomiej Żabiński, room 0206
Students: [Nada Abdellatif](#), [Marek Kowalik](#), your room: 0112
- 14 Two for the prize of one!**
Supervisor: dr Bartłomiej Żabiński, dr Magdalena Sławińska, room 0206, 0220
Students: [Milena Simić](#), [Karol Łukanowski](#), your room: 0112

- 15 Radiation damage of the silicon sensors and (on)detector electronics in ATLAS experiment on the LHC and beyond**
Supervisor: dr hab. Ewa Stanecka, room 0204
Students: [Gregor Košir](#), [Georgios Papachatzakis](#), your room: 0215
- 16 Study of neutrino interactions in the T2K experiment**
Supervisor: dr Marcela Batkiewicz-Kwaśniak, dr Tomasz Wąchała, room 0319
Students: [Miguel Ruiz](#), [Dariusz Klimowicz](#), your room: 0302
- 17 Acquainting with the techniques of data analysis in large experiments of the high energy astrophysics (Baikal - GVD, Auger experiments, and CREDO)**
Supervisor: Konrad Kopański, dr Paweł Malecki, room 0102
Students: [Levente Fekésházy](#), [Nastasija Petkovic](#), [Krzysztof Wal](#), [Maria Liubarska](#), your room: 0102 (2 p.) and 0302 (2 p.)
- 18 Quark/gluon jet discrimination using Machine Learning**
Supervisor: dr hab. Marcin Chrzęszcz, dr Andrzej Siódmok, room 0307, 4205
Students: [Adam Tomczak](#), [Dzmitry Budkouski](#), your room: 0109
- 19 Search for lepton violation in $B \rightarrow K\ell\mu$ decay in the LHCb experiment**
Supervisor: dr hab. Marcin Chrzęszcz, prof. dr hab. Mariusz Witek, room 0307, 5317
Students: [Michał Kazanecki](#), [Ihor Naporozhnii](#), your room: 0108
- 20 C++ interfaces for KaTie**
Supervisor: dr Andreas van Hammeren, Department of Particle Theory (NZ42), room 4210
Students: [Maryna Oleksiienko](#), [Marcin Jastrzębski](#), your room: 4205

- Students with signed agreements should apply for access cards asap.
- Procedure:
 - go to room 5303 (mgr Magdalena Skrobek),
 - go to cash desk (room 4603; Irena Kozynacka; VI-th floor) to pay 20 PLN of deposit; receive confirmation; cash desk is opened between 10:00 and 14:00,
 - go back to room 5303 with confirmation and ID to obtain the card.
- On the last day (Friday, 2/08/2019) return card to room and go to cash desk with confirmation to clam back your 20 PLN of deposit.

Questions?