# Gamma Factory News

#### Content:

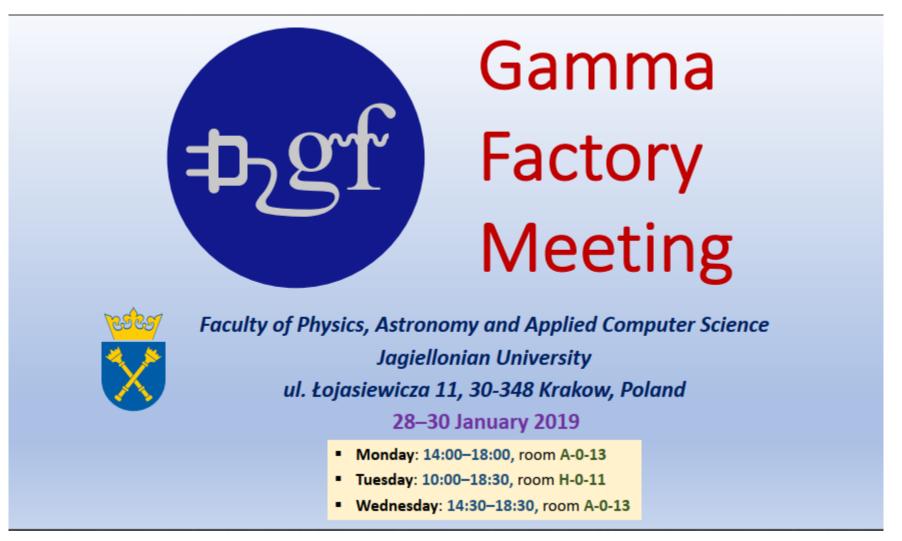
- 1. Working groups
- 2. Recent Krakow meeting
- 3. Dead lines in front of us
- 4. End of February workshop

### GF Working Groups

#### Several working groups created:

- 1. Simulations software development:
  - Topics: Partially Strip Ions (PSI) beam dynamics, interaction of PSI with laser, PSI laser cooling
  - Members: <u>Alexey Petrenko</u>, Wieslaw Placzek, Camilla Curatolo, Aurelien Martens, Siobhan Alden
- 2. Beam tests data analysis, vacuum, strippers:
  - Topics: preparation of beam tests in SPS and LHC, data analysis, SPS and LHC vacuum studies, stripper simulations and production
  - Members: Michaela Schaumann, Simon Hirlaender, Thomas Stoehlker, Nicolo Biaccacia, Felix Kroeger, Gunter Weber, Simone Gilardoni, Roberto Kersevan, Andrey Abramov, Roderick Bruce, James Molson, Nuria Fuster, Slava Shevelko, <u>Reyes Alemany</u>
- 3. Proof Of Principle experiment in the SPS
  - Topics: design, production, integration and commissioning of a laser cavity and a laser in the SPS beam pipe, gamma detector development, atomic physics aspects of PSI and experiment proposal
  - Members: Brennan Goddard, Jacek Bieron, Dima Budker, Szymon Pustelny, Andrey Surzhykov, Kevin Dupraz, Aurelien Martens, Steven Gibson, Velentin Fedoseev, Mariusz Sapinski, Thibaut Lefevre

## Recent Krakow meeting



### Dead lines in front of us

There are different deadlines set up for the Gamma Factory Study:

- 1. The first one is at the end of February. We are organizing a workshop at CERN and one of the sessions is precisely devoted to our working group.
- 2. End Feb 2019: ESPP Yellow Report: 1st draft finished
- 3. End March 2019: ESPP Yellow Report: Finished
- 4. May 13-17<sup>th</sup> 2019: ESPP Grenada 'open' meeting
- 5. End June 2019: final design SPS Proof of Principle experiment in SPS (SPS PoP): SPS Letter Of Intend
- 6. July 2019: start "zero-cost" engineering design of SPS PoP
- 7. End 2019: secure 2020 funding?
- 8. March 2020: Strategy update to CERN Council
- 9. May 2020: CERN council approval, strategy update
- 10. Mid 2020: start real procurement and construction?!?