

Gamma Factory News

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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: Alexey Petrenko, 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 Hirlander, Thomas Stoehlker, Nicolo Biaccacia, Felix Kroeger, Gunter Weber, Simone Gilardoni, Roberto Kersevan, Andrey Abramov, Roderick Bruce, James Molson, Nuria Fuster, Slava Shevelko, Reyes Alemany

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



**Gamma
Factory
Meeting**



*Faculty of Physics, Astronomy and Applied Computer Science
Jagiellonian University
ul. Łojasiewicza 11, 30-348 Krakow, Poland
28–30 January 2019*

- **Monday: 14:00–18:00, room A-0-13**
- **Tuesday: 10:00–18:30, room H-0-11**
- **Wednesday: 14:30–18:30, room A-0-13**

<https://indico.cern.ch/event/792085/timetable/#all.detailed>

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 13-17th 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?!?