

Minutes PEPS meeting 15.04.26

Minutes PEPS meeting 15.04.26 (1 hour duration, about 12 participants)PEPS workshop in Osaka, Japan from 26 to 29 May 2026

<https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Findico.ihe.ac.be%2Fevent%2F2549%2F&data=05%7C02%7Cmateo.fernandez%40ulb.be%7Ceb61!>

- For those who will attend remotely, please register on indico and mention when you would be available to connect.
- The idea is to have a hands-on workshop with sessions on science case, Auger software, hardware, ...
- Focus on producing a white paperPEPS white paper
- Aiming for a first draft by the end of the summer.
- Tie up loose ends for the different items of the Science Case.
- Olivier can help with the BSM physics, other main contributors to be defined

Simulations

- produce the Offline branch and provide access to
- Install and run Auger software before the workshop.
- Implement the real geometry, Luis, engineer from Brazil, will provide the tank geometry from CAD.
- Critical assessment from simulations: understand if Tyvek lining can be removed or not.
- Nico can offer help with the Offline software.

Hardware devels

- A company based in Brussels can produce the optical windows for the PMTs. If they are produced soon (hopefully), one optical window could be brought to Japan for the workshop and another one could be shipped to Prague if needed.
 - Yifan is working on the comms with the UB (to present in the next meeting more details).
 - A lab for optical tests has been set up in Brussels. Mateo presented measurements taken in the Brussels lab of the dark rate measurement of the 8 inch Hamamatsu PMT (no real issues with the dark rate).
 - PMTs: Eiji asked about the afterpulses and the linearity of the PMTs.
- We need to understand the requirements for PEPS, first guess is that the linearity is good enough. Next meeting will be focused on the optical system.