

PEPS meeting minutes

26/11/2025

Meeting duration: 12:30- 13:45 about 10 participants

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- TeVPa feedback: possible further collaboration in hardware design with Tambo and discussion with several other people on science case (some to be invited in our regular meetings for a presentation)
- Request to make the Auger software available to non-Augur people during the Malargue meeting next week. Official letter to be written and send to the CB/spokes as soon as possible. Martina will present the letter during the CB as Ioana will be already traveling back.
- Wiki page will be available next week, with access for everybody.

Hosted by IIHE (Brussels).

Science case brief discussion:

- expectations as deduced from the LHAASO results are better than expected (25 events/year/km² for $E > 1\text{PeV}$).
- interesting new variable sources: Cygnus X-3
- Lorentz invariance violations seems not to affect the PeV region (slides of Denise at TeVPa), need to look more into the details

Technical stuff:

- contact for the optical window material made, waiting for a quote. Material will be purchased for all the prototypes (Prague, Japan, etc)
 - not yet a company that could do the thermoforming
 - multiPMTs design might be interested in case we have money to update the electronics
- discussion about the place of the Japanese prototype installation (Auger or TA infill) needs to be continued
 - Toshi has a very good quotation for Hamamatsu R5912 and base and shared the technical sheet. Also confirmed that the 10-dynode can be delivered within about 3/4 months.
 - Electronics: we need to understand if Tiina is building new TPCBs or she is just modifying them (to be discussed in Malargue)

Simulations and software

- Andrea will start making some simulations considering the Brazilian resin. Chisato currently in Taiwan, he would be interested to participate

- Michael K: only derivative files available on EDMS. Martina will try to figure out if someone in Malargue has the design software in their computer to avoid the extra work of re-implementing the design.

Other discussions:

- Funding from the mobility project: two PEPS meeting next year, in April in Japan and in October in Brussels. Dates to be decided rather soon.
- a possible bilateral call Japan/Argentina to be investigated
- Ioana is organizing PEPS lunch in Malargue on Thursday

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