PTOLEMY

Telecon to be held on 02 of May 2018 at 16:00 Rome Time Zone

Agenda:

1) Report form Chris on Hardware activity at Princeton.
2) Report on measurements of ground state of T on graphene (if anybody from Spain will connect).
3) Report on MC simulation on Cosmic Rays.
4) Report on contacts with LNGS management

A.O.B

Minutes:

Chris reported on the movement of the magnets and of the vacuum chamber from the basement of the Princeton University to a larger laboratory upstairs.
He is preparing some work for the visit of AlfredoC that will happen on May 15th.

He talked to some theorists about the measurements of the ground state of T in a graphene substrate. They liked the idea of doing it by means of phonons.

During a seminar at the Yale University Chris got in touch with Penny Slocum, expert of RF generation of the Project8 antennas and involved in the implementation of the RS simulation on the KASSIOPEIA code. AlfredoC will contact her to investigate if she is willing to share with us this development.
A software eng. from Amazon company will work for one year with Chris on software development for the PTOLEMY project.

AlfredoC reported on the activity of CarloM on the MC and possible implementation of the delta rays simulation in GEANT. If they are produced in large number they might be one of the main reason we want to be underground. Thus, a MC study of this subject is relevant to definitively address our need to have underground space allocation for our R&D and finally for the experiment.

AlfredoF just reported that the student from Stockholm is happily working on the KASSIOPEIA code.

Marcello reported on the contacts with the LNGS management. Everybody gives very good un-official opinions on PTOLEMY but the official report from LNGS SC will still take some time to come.

He also reported that the hardware activity at LNGS are on hold. So far, we have ben hosted underground by MOSCAB collaboration which required we free the space. Thus, we need space allocated to the PTOLEMY to go on without interruption.