

## **LSC Scientific Committee – 32nd Meeting**

May 31 - June 1, 2023

Canfranc Estación, Spain

### **Summary, Conclusions and Recommendations**

#### **1 Introduction**

The 32nd Scientific Committee meeting took place on May 31st and June 1st at the Canfranc Underground Laboratory. The Scientific Committee welcomed two new members: Federica Petricca and Filippo Resnati. We would like to acknowledge the excellent work of the members who completed their service at the last meeting, especially the outgoing chair Mark Chen as well as Eligio Lisi and Paola Tropea. The meeting was held on a hybrid mode with most participants being present in person. Some Committee members and participants of the experiments were remotely connected. During the meeting, we had the opportunity to visit the underground laboratory, including the Lab 2500 and the biology lab facilities.

The Committee heard presentations from ANAIS, NEXT, JASC, CROSS, DAMIC and HENSA. We also reviewed written reports from these experiments and from DArT, IAXO and TREX-DM. We started with a presentation by the Director describing the developments of the lab on staff, infrastructure and various very interesting ongoing activities. It was pointed out that the experiments in the lab are currently receiving less support compared to previous years. This is unfortunate but it is a consequence of the extensive activities taking place in the context of the Hyper-K experiment. The Director mentioned that from next semester, the situation should start improving. Furthermore, there was a talk from the ITANNOVA group about their activities measuring and improving electromagnetic noise. This is a great opportunity for the lab and all experiments to significantly improve the working conditions and, consequently, also their scientific results.

Prior to the meeting, on May 16<sup>th</sup>, there was a visit by Victoria Levy (Biology projects referee) together with two additional experts in the field (Marta Magarinos and Renata Moreno) who learned about the lab and the activities that are ongoing. Since Biology projects continue growing, the Committee considers very helpful to have the additional support of these external referees.

The next Scientific Committee meeting will take place on **November 20-21, 2023**. Also, a BIO evaluation pre-SC meeting has been set to take place in Valencia on **November 7**.