

# **LSC Scientific Committee**

22nd Meeting

19-20 April, 2018

Canfranc Estación, Spain

## **Summary, Conclusions and Recommendations**

The 22<sup>nd</sup> meeting of the LSC Scientific Committee was held 19, 20 April 2018 at the LSC premises. The meeting was preceded by a day of thorough technical and safety reviews. The period since the previous review in November has been one of considerable technical and construction progress. ANAIS has been quietly taking physics data while monitoring the local environmental variables. Experiments such as TREX-DM and CROSS are in construction and indeed, in the case of CROSS, the Committee was informed that the cryostat delivery is one year ahead of schedule. Details on the programs are presented below.

This meeting is probably the last under the Directorship of Aldo Ianni. In the opinion of the Committee, Aldo's term as Director has been a huge success. The program has been expanded both in the traditional areas of astroparticle physics such as dark matter and double beta decay searches but also in areas such as underground biology and site tests for possible gravity wave detectors. It has been a very exciting time to sit on the Committee. This expansion has taken place in a climate where there is a very strong emphasis on safety and attention to review. At the same time laboratory infrastructures have been expanded for example by the provision of radon reduced air. The period has been marked by a large increase in outreach activities aimed at both the local community and at the wider scientific community. The refurbishment of the Casa de los Abetos has provided a facility for both scientific workshops and for presentations to the local population. These are major accomplishments in such a short period. Of course in our reflections on this period we also remember again the important role played by José Ángel Villar.

The Committee heard presentations on the ArDM, Einstein Telescope, GEODYN, CROSS, ANAIS, TREX-DM and NEXT experiments. In addition, written reports were received from CYCL-Neutron and SuperK-Gd. The Committee's findings are presented below.

The date for the next meeting has not yet been fixed. It was agreed that this should be fixed after the new director is appointed and his/her schedule can be accommodated.