

CALLIOLAB IN DULIA, THE EUROPEAN NETWORK OF DEEP UNDERGROUND LABORATORIES

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The Deep Underground Laboratories in Europe have started a networking activity project DULIA (Deep Underground Laboratory Integrating Activity), which provides a forum for a joint assessment of scientific proposals that plan to utilize the Deep (over 1 km of *mass water equivalent* layer of rock) Underground Laboratory (DUL) facilities, in EU countries. During 2016, *Calliolab* in Pyhäsalmi mine starts participating as the newest member in the DULIA network, the other four laboratories being located in Gran Sasso (Italy), Boulby (UK), Souterrain de Modane (France/Italy) and Canfranc (Spain).

From the physics research point of view, the DULs are currently the only viable facilities to conduct many types of astro-particle physics experiments, such as neutrino detection or direct observation of dark matter particles, because the cosmic ray background clouds the possibility to detect weakly interacting particles on the surface. In this presentation we discuss the characteristics of the DULIA laboratories and make short review of the current Deep Underground laboratory infrastructures on a global level.

We also review the other DULIA activities, such as the standardization of background radiation assessment methodologies, safety instructions, sharing best practices, education and organization of joint workshops for the users.