

DARWIN - A Low-Background, Low-Threshold Astroparticle Physics Observatory

Monday, May 10, 2021 1:30 PM (20 minutes)

I will present the science case and the status of DARWIN, a liquid xenon time projection chamber (TPC) with a target mass of ~40 t. It will be sensitive to WIMP dark matter interactions down to the neutrino floor, the double beta decay of Xe-136, will allow for a precision measurement of low energy solar neutrinos, and will be sensitive to many other rare processes as well

Presenter: Prof. SCHUMANN, Marc (Albert Ludwigs Universitaet Freiburg (DE))

Session Classification: Dark Matter Searches