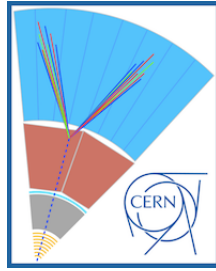


Searching for long-lived particles at the LHC and beyond: Ninth workshop of the LLP Community



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Results and future plans of the MoEDAL experiment

Tuesday 25 May 2021 16:00 (20 minutes)

The unprecedented collision energy of the LHC has opened up a new discovery frontier. Unfortunately, signs of new physics have yet to be seen. The LHC's first dedicated search experiment, MoEDAL, started data taking for LHC's Run-2. MoEDAL is designed to search highly ionising particle avatars of new physics using p-p and heavy-ion collisions at the LHC. The planned upgrade for MoEDAL at Run-3 - the MAPP detector (MoEDAL Apparatus for Penetrating Particles) - will extend MoEDAL's physics reach to include feebly interacting and long lived messengers of physics beyond the Standard Model. This will allow us to explore a number of models of new physics, including dark sector models, in a complementary way to that of conventional LHC collider detectors. The presentation focuses on recent results and plans for the LHC Run 3.

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Session Classification: Dedicated LLP detectors and projects at the LHC