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The MoEDAL Experiment at the LHC - Status Report and Plans

Wednesday, 11 July 2018 12:00 (30 minutes)

MoEDAL, is a pioneering LHC experiment designed to search for anomalously ionizing messengers of new physics. It started data taking at the LHC at a centre-of-mass energy of 13 TeV, in 2015. Its ground breaking physics program defines a number of scenarios that yield potentially revolutionary insights into such foundational questions as: are there extra dimensions or new symmetries; what is the mechanism for the generation of mass; does magnetic charge exist; and what is the nature of dark matter. After a brief introduction I will report on MoEDAL's progress to date, including our past, current and expected future physics output. I will also, discuss two new sub-detectors for MoEDAL: MAPP (Monopole Apparatus for Penetrating Particles) now being prototyped at IP8; and, MALL (Monopole Apparatus for very Long Lived particles), currently in the planning stage. I will conclude with a brief description of our program for LHC Run-3.

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Session Classification: Mini-workshop on Highly Ionising Avatars of New Physics