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【337】 First test run results at the NA64 μ experiment at CERN

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After the end of the CERN Long Shutdown 2 (LS2), the NA64 e experiment has resumed its search for dark sectors through its complementary experiment NA64 μ at the CERN SPS M2 beamline, looking for light dark bosons weakly coupled to muons. In addition to enlarging the sensitivity of the NA64 e probed parameter space motivated by thermal relic dark matter, it also aims at bringing possible explanation to the recently confirmed $(g - 2)_\mu$ anomaly. In this talk, the first test run results of the NA64 μ experiment are discussed, alongside with its future prospects at the LS3 horizon.

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