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Recent results from the ABRACADABRA-10cm search for low-mass axion dark matter¹ CHIARA SALEMI, Massachusetts Institute of Technology MIT, ABRACADABRA COLLABORATION — The presence of dark matter provides some of the most tangible evidence for the existence of physics beyond the Standard Model. One compelling dark matter candidate is the axion, a light boson that was originally postulated as a solution to another outstanding issue, the strong CP problem in QCD. ABRACADABRA-10cm is a demonstrator for lumped element searches for sub- μeV axion and axion-like dark matter, which look for axion-induced modifications to Maxwells equations using a strong magnetic field and quantum electronics. This talk presents recent results from this prototype detector, as well as its current status and plans for the future.

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