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The Search for Low-Mass Axions with ABRACADABRA-10cm: Preparations for Run 2

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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 is an experimental program to search for sub- μeV axion and axion-like dark matter. It searches for axion-induced modifications to Maxwell's equations with a toroidal magnet and quantum electronics. This talk will present preparations for the second run of the prototype detector, ABRACADABRA-10cm.

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