Date:	Monday, 26 November 2018		
Time:	11:00 – 12:20		
Speaker:	Leslie ROSENBERG		
Institution:	Department of Physics, University of Washington		

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Recent ADMX Results at the DFSZ Frontier

Abstract:

The question of what constitutes dark matter is one of the most important questions of our time.

The axion, a hypothetical elementary particle, is a particularly well-motivated dark-matter candidate. An axion having mass in the range 1-100 micro-eV/c² is especially attractive in that this is the mass suggested by QCD and cosmology for axions to make a substantial contribution to dark matter. In addition to operating in this mass range, a search for the QCD dark matter axion should be sensitive to the highly-compelling, but incredibly feeble DFSZ coupling of axions to normal matter and radiation. ADMX is the only experiment to date with this DFSZ sensitivity. ADMX continues to take data, and will explore a substantial fraction of this mass range at DFSZ sensitivity in the near future. This presentation reports ADMX results and plans, including plans for the next-generation ADMX.

Notes:	