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Dark Forces, Dark Matter, and the GeV-Scale Discovery Frontier

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The search for new forces mediated by sub-GeV particles with very weak coupling to matter (“dark forces”) is an emerging frontier in fundamental physics with well-motivated connections to dark matter. These forces remain very weakly constrained, but a wide variety of recent and upcoming experiments are greatly extending sensitivity to them. I will present the theoretical motivations for dark forces and their possible connections to dark matter and the anomalous magnetic moment of the muon. I will also discuss strategies, results, and prospects for searches at high-energy colliders, flavor factories, and dedicated fixed-target experiments. I will focus primarily on the program of searches for dark forces at Jefferson Laboratory.