

APR18-2018-000449

Abstract for an Invited Paper
for the APR18 Meeting of
the American Physical Society

Light Mediators to Dark Sectors

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We offer a theoretical perspective on searches for light hidden sectors, existing anomalies, and new experimental strategies. Low-mass, very weakly coupled hidden sectors may be portals to dark matter that upend the experimental complementarity of the weakly-interacting massive particle paradigm. This scenario offers rich phenomenology and new experimental handles to understand physics beyond the Standard Model.