

Theory of dark photons and dark sectors

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I will review dark sectors—a generic name for new, light particles that couple weakly to the standard model—with a focus on dark photons. Dark sectors have received a large amount of attention in recent years as explanations of a number of experimental anomalies and as the source of the Universe's dark matter, required by astronomical and cosmological observations. I will discuss future prospects to discover dark photons and dark sectors, highlighting new experimental probes.

Presenter: MCKEEN, David (TRIUMF)

Session Classification: New Directions for Ariel