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The Price of Tiny Kinetic Mixing

Monday 14 January 2019 12:00 (30 minutes)

Scenarios with a dark sector involving a light gauge boson have attracted considerable attention recently. The kinetic mixing of such a "dark photon" with the standard photon has to satisfy very stringent experimental bounds, which are violated in the simplest case where kinetic mixing is generated at the one-loop level. I will present scenarios where a sufficiently small kinetic mixing can be obtained.

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