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Dark photons: motivations, cosmological signatures and constraints

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Dark matter is powerful evidence that the Standard Model is not complete. Dark matter can be a part of a hidden sector and Dark photons are a generic predictions of such sectors. They can be produced through a variety of mechanisms and I will give a brief overview of these mechanisms. I will give then discuss cosmological constraints and signals such as modifications to the light element abundances, broadening the surface of last scattering, modifying the cosmic microwave background and the production of a gravitational wave background. I will then discuss Super-Nova constraints before discussing beam dump experiments.

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