

Dark Photons and Magnetic Charge

Wednesday 28 June 2023 11:00 (30 minutes)

The gauge bosons of a hidden $U(1)$ sector seems to be one of the simplest extensions of the standard model. However, if this hidden sector includes magnetic charges a host of novel phenomena result. These include new dark matter possibilities with distinctly new way to detect them. I give an overview of some of the phenomena and theoretical understanding that hidden magnetic monopoles provide.

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Session Classification: Plenary

Track Classification: Formal/strings