

Dark matter solar container

<div class="df_qntext">What is dark photon dark matter (DPDM)?

Dark photon dark matter (DPDM) emerges as a compelling candidate for ultralight bosonic dark matter, detectable through resonant conversion into photons within a plasma environment. This Letter employs in situ measurements from the Parker Solar Probe (PSP), the first spacecraft to venture into the solar corona, to probe for DPDM signatures.

<div class="df_qntext">Can radio telescopes detect dark photon dark matter?

J. C 71, 1554 (2011). An, H. et al. Direct detection of dark photon dark matter using radio telescopes. Phys. Rev. Lett. 130, 181001 (2023). Godfrey, B. et al. Search for dark photon dark matter: sark E field radio pilot experiment.

<div class="df_qntext">Does Higgs mechanism produce dark photon dark matter?

T. Sato, F. Takahashi, and M. Yamada, Gravitational production of dark photon dark matter with mass generated by the Higgs mechanism, J. Cosmol. Astropart. Phys. 08 (2022) 022.

<div class="df_qntext">Does XENON1T excess produce dark photon dark matter?

Nakayama, K. & Tang, Y. Gravitational production of hidden photon dark matter in light of the XENON1T excess. Phys. Lett. B 811, 135977 (2020). Firouzjahi, H., Gorji, M. A., Mukohyama, S. & Salehian, B. Dark photon dark matter from charged inflaton. JHEP 06, 050 (2021).

<div class="df_qntext">What is a good book about solar radio emission & ultralight dark matter?

D. (Reidel Pub. Co.; Kluwer Boston, Inc, 1982). An, H., Ge, S. & Liu, J. Solar radio emissions and ultralight dark matter. Universe 9, 142 (2023). Bavassano, B. & Bruno, R. Density fluctuations and turbulent mach numbers in the inner solar wind. J. Geophys.

<div class="df_qntext">Could NASA's Parker Solar Probe be a dark-matter detector?

Researchers have turned NASA's Parker Solar Probe into a dark-matter detector, taking advantage of its close encounters with the Sun to search for dark-photon signals. See more in Physics B. Holdom, Two U (1)'s and epsilon charge shifts, Phys. Lett. 166B, 196 (1986).

Abstract Dark matter (DM) particles traversing the Sun can lose energy through elastic scattering with solar nuclei and become gravitationally captured. For DM with masses below a few ...

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Abstract - We have searched for and estimated the possible gravitational influence of dark matter in the Solar system based on the EPM2011 planetary ephemerides using about 677 thousand positional ...



Dark matter solar container

Abstract: Ultralight axions and dark photons are well-motivated dark matter candidates. Inside the plasma, once the mass of ultralight dark matter candidates equals the plasma frequency, they can ...

Quantum sensors, such as atomic clocks, placed deep into the inner Solar system, may be sufficiently sensitive to directly detect ultralight dark matter bound by the mass of the Sun.

We study the properties of the boosted dark matter particles, obtain exclusion limits based on various experiments probing both electron and nuclear recoils, and derive projections for future detectors.

Consequently, the in-situ measurements of PSP effectively transform the solar corona into a dark matter haloscope. By utilizing the PSP observations, we present the search for DPDM in the radio frequency ...

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Maps in the plane of dark-matter mass and scattering cross section quantify these trends, with the evaporation mass indicated on the maps. The results are presented in a form directly ...

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