

Astrophysical signatures of axion-like-particle clumps

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Axion-like-particles frequently appear in extensions of the Standard Model and could be a principal component of the dark matter in the universe. We review several astrophysical effects that could be due to inhomogeneous axion distributions. Such clumps could have been present at early stages of the evolution of the universe giving rise to the formation of black holes; or they could exist in the present dark matter distribution and be related to the observed Fast Radio Bursts and contribute to the so called Gegenschein emission.

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