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Axions and White Dwarfs

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(Submitted on 26 Oct 2010)

White dwarfs are almost completely degenerate objects that cannot obtain energy from the thermonuclear sources and their evolution is just a gravothermal process of cooling. The simplicity of these objects, the fact that the physical inputs necessary to understand them are well identified, although not always well understood, and the impressive observational background about white dwarfs make them the most well studied Galactic population. These characteristics allow to use them as laboratories to test new ideas of physics. In this contribution we discuss the robustness of the method and its application to the axion case.

Comments: 4 pages, 1 figure, to appear in the Proceedings for the 6th Patras

meeting on Axions, WIMPs and WISPs

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