

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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Warm Dark Matter vs. Cold Dark Matter Scenarios for the Formation of Cosmic Structures

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I will review the present astronomical evidences for Dark Matter, enlightening their implications for the nature of the Dark Matter components. In particular I will review some critical aspects of the current Cold Dark Matter model concerning the formation and evolution of cosmic structures, and show the impact of assuming lighter Dark Matter particles (Warm Dark Matter) on the statistical properties of galaxies and Active Galactic Nuclei.

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