

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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Recent results of the XENON100 experiment and future goals of the XENON project

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The XENON collaboration is presently running its second detector, XENON100, which led the field of direct dark matter search for many years. Recently the collaboration published many new results, such as exclusion limits on spin dependent and spin independent cross section interaction of WIMPs with ordinary matter. Very competitive results were also published on the search of Axion-like particles in the mass range of KeV. While still taking data with XENON100 the collaboration is also committed to build the third generation detector. This will start the era of the XENON detector with an active mass on the ton scale, aiming at obtaining unprecedented results. An exhaustive presentation of all topics mentioned above will be given in the talk.

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