

Invited Talk: Future direct search for various types of dark matter

Thursday, 29 October 2015 11:00 (30 minutes)

Modern cosmology requires dark matter (DM) to explain the structure of the visible universe. The nature of DM is totally unknown. One attractive candidate put forward by theory is a weakly interacting massive particle (WIMP), which could be a thermal relic of the Big Bang. The supersymmetric extension of the standard model provides one of the major candidates for DM. With this consideration, worldwide experimental efforts to detect WIMPs have been made and future large-scale projects are currently planned. However, no positive evidence of supersymmetric particles was observed in the large hadron collider experiments so far. This strengthens the interest in investigating a broad range of DM candidate. In this talk, future projects to search for standard WIMPs and experimental approaches to study various types of dark matter candidates are discussed.

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