

Dark Matter: where we stand

Abstract:

After 70 years of the first evidence for the existence of dark matter, its nature is still a complete mystery. But it is an important mystery because it turns out that roughly 27% of the universe is dark matter. In this talk I will explain the evidences of dark matter, the properties that any candidate should have. I will introduce candidates that can (partially) fulfill these properties and the ways how we can detect these candidates. At the end I will review the most recent observational results of different candidates.