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## Computation of relic densities within freeze-out mechanism

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Since decades, our knowledge of fundamental physics is being challenged by astrophysical and cosmological observations, thus leading us to the hypothesis of the existence of the so-called *dark matter*. Nowadays, different approaches have been explored in order to describe the nature of such matter. One of them assumes that the dark matter is made of a stable particle not yet detected by particle physics experiments. The goal of my work is to add features to the software “SuperIso Relic”, in order to study the evolution of the density of particles in new physics models.

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