



Contribution ID: 21

Type: **not specified**

## One hundred years of studies of rotation curves of Spiral Galaxies

*Friday 16 September 2022 16:05 (25 minutes)*

The standard analysis of the rotation curves of spiral galaxies suggested the presence of a dark matter component in those galaxies, however there are other models that suggest other explanations to explain the Non-Keplerian behavior.

In this work we studied the rotation curves of spiral galaxies by using different models of diverse physical nature that give us an understanding of them under the gaze of recent observations, including the respective analysis of the rotation curve of the Milky Way from the Gaia Data Data Release 3 (DR3).

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