

Preliminary Studies on Black Holes

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Resumo

The investigation into black holes and their properties is a subject that generates considerable curiosity among those interested in the universe, being a topic of much prominence. Based on this, the studies conducted by the authors employed a methodology of bibliographic reviews of materials that pedagogically address the theme, starting with the historical introduction that highlights the motivation behind the study of these fascinating objects, moving through the physical concepts, and culminating with Einstein's theories of Special Relativity and General Relativity. In this context, we analyze the Minkowski and Schwarzschild metrics. The latter is instrumental in understanding the so-called Schwarzschild Black Hole, a spherical and static object that models a massive star that has extinguished and collapsed under its own gravity (or curvature). We will present a summary of these preliminary Scientific Initiation studies in our poster.

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