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## Mass and its changing mode with speed: Density and its expansion in Einstein's relativity

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To achieve the relation between mass and velocity, we must be aware of the factors affecting the mass when it is speeding. Stagnation, momentum and time are the most essential factors of speed recognition, and the precise definition of them helps the relationship between mass and velocity. The purpose of this study is to investigate the factors affecting rest mass when it is speeding, what factors affect velocity, and what factors are ineffective at high speeds. If we correctly express the relation of velocity with pressure, gravity and density, we will reach the relation between mass and velocity. The velocity causes expansion and contraction, and modifies the state of the mass, when a mass travels 299792458 meters in one second, it converts into energy, and when it travels 299792458 meters in less than a second, it converts into anti-mass or meta-energy.

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