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Rocky Planet Paradox FLORENTIN SMARANDACHE, University of New Mexico — The science tells us that a rocky body in the Solar system whose mass exceeds 3×10^{21} kg should be round. The Moon is 7.3×10^{22} kg, therefore its shape is round. But the Moon rotates around the Earth, therefore it should get flatter in the direction of rotation according to the relativistic length contraction, since the Moon's radius which is perpendicular on the trajectory is unchanged while the Moon's radius in the direction of the motion should get contracted. Yet, although the Moon orbits the Earth for geological time, it is not flat! In general, let's consider a rocky non-rotating cosmic body, with mass exceeding 3×10^{21} kg that orbits the Sun or one of the solar planets. The larger is the cosmic body's orbit, the simpler is to get a small part of its orbit that looks linear. Then this cosmic body should flatten in the direction of motion, according to the Theory of Relativity, but this is in contradiction to the previous science law that this cosmic body should be round.

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