

Imagine that you have a heavy mass this mass occupies space and then you have a heavier mass of the same volume of the first heavy mass imagine that you increase the energy of the two masses the two masses thus increase in mass per volume ratio and thus increase gravitation you can measure mass to volume ratio gravitational force by getting a light element like hydrogen and a heavier mass such as the heaviest nuclear element and fill a volume (maybe a sphere) totally and fully with both of the two elements separately and each and heat each sphere to the point the element accept no more heat then measure the gravitational force of each of the two volumes with heated balls of similar elements to the point that the balls and the heated heavy element spheres are of $G^{(1/2)}$ or of root of G