Wednesday, December 16, 2020 9:36 AM

$$V^{2} = x^{2} \cdot y^{2} \cdot y^{2}$$

$$T_{ij} = \int d^{3}r \, \rho(i) (\partial_{x} \, r^{2} - \langle x \, r_{x} \rangle) \quad \rho(i) = H(x) \, \mu(1-x) \, \delta(y) \, \delta(y) \, \frac{1}{n}$$

$$T_{ix} = \frac{1}{n} \int_{0}^{1} du \, (0-0) + \frac{1}{n} \int_{1}^{1} dy \, y^{2}$$

$$= \frac{2}{n} \frac{1/3}{3} \, \frac{1}{n}$$

$$= \frac{1}{12^{n}}$$

$$T_{ij} = \frac{1}{n} \int_{0}^{1} du \, x^{2} + \frac{1}{n} \int_{1}^{1/2} dy \, (l^{2})$$

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$$= \frac{1}{n} \int_{0}^{1} du \, x^{2} + \frac{1}{n} \int_{0}^{1/2} dy \, (l^{2} \cdot y^{2})$$

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$$= \frac{1}{n} \int_{0}^{1} du \, (-x \cdot 0) + \frac{1}{n} \int_{0}^{1/2} dy \, (-y_{i})$$

$$= 0$$

$$T_{iy} = \frac{1}{n} \int_{0}^{1} du \, (-x \cdot 0) \cdot \frac{1}{n} \int_{0}^{1/2} dy \, (y \cdot 0)$$

$$= 0$$

$$T_{iy} = \frac{1}{n} \int_{0}^{1} du \, (0 \cdot 0) + \frac{1}{n} \int_{0}^{1/2} dy \, (y \cdot 0)$$

$$= 0$$

$$T_{ij} = \frac{1}{n} \int_{0}^{1} du \, (0 \cdot 0) + \frac{1}{n} \int_{0}^{1/2} dy \, (y \cdot 0)$$

$$= 0$$

$$T_{ij} = \frac{1}{n} \int_{0}^{1} du \, (0 \cdot 0) + \frac{1}{n} \int_{0}^{1/2} dy \, (y \cdot 0)$$

$$= 0$$

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Center of mars, for the pendulum is at  $\dot{p} = \frac{31}{4} \left( \frac{\cos \vartheta}{\sin \vartheta} \right)$ .  $Z = \frac{1}{2} \vec{\mathcal{I}} \vec{\mathcal{I}} \vec{\mathcal{J}} + M_{\mathcal{I}} = \frac{1}{2} l \cos \theta$ = 17 th 02 + ng 3/2 wood 2 32 - 32 =0 = 17 1 " 0 + 3 ngl simb 2 12 L 0 + 3 Mge 2  $w^2 = \frac{18}{17} \frac{M^2 g}{\ell^3}$ I don't think this is right. It shouldn't depend on wass. Not sure white wrong...