





$$\frac{\left(\cos\varphi\right)}{\int_{0}^{2} \sin\varphi \, d\varphi} = \frac{\int_{0}^{\infty} \varphi}{\int_{0}^{2} d\varphi} = \frac{\int_{0}^{\infty} \varphi}{\int_{0}^{2} d\varphi} = \frac{\int_{0}^{2} \varphi}{\int_{0}^{2} \varphi} =$$

$$=\frac{\cos^{3}\varphi \sin\varphi}{3}$$

$$\frac{1}{3}\int_{0}^{4}\frac{\cos^{3}\varphi \sin\varphi}{\cos^{3}\varphi \sin\varphi} d\varphi = \frac{1}{3}\left(-\frac{\cos^{4}\varphi}{4}\right)$$

$$=\frac{1}{3}\int_{0}^{4}\frac{\cos^{4}\varphi}{\cos^{3}\varphi \sin\varphi} d\varphi = \frac{1}{3}\left(-\frac{\cos^{4}\varphi}{4}\right)$$

$$=\frac{1}{3}\left(-\frac{\sqrt{2}}{4}\right)^{4}+\frac{1}{4}$$

$$= \frac{1}{3} \left(\frac{1}{4} - \frac{1}{16} \right)$$

$$\int_{0}^{2\pi} \frac{1}{3} \left(\frac{1}{9} - \frac{1}{16} \right) d\phi = \frac{2\pi}{3} \left(\frac{1}{9} - \frac{1}{16} \right)$$

$$V_0$$
 de la espa $\frac{4}{3} \text{TT} \left(\frac{1}{2}\right)^3 = \frac{2 \text{TT}}{3} \left(\frac{1}{4}\right)$