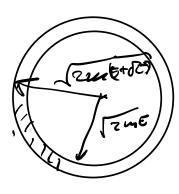
= SdQ. SdP A ECHCELSE

 $E = \sum_{j=1}^{2N} \frac{1}{2^{j}} = \sum_{j=1}^{2N} \frac{p_{j}^{2}}{2^{j}} = \frac{p^{2}}{2^{j}}$

E=coust. -> on sphere in EU DIMENSIONAL SPACE WITH RARYUS

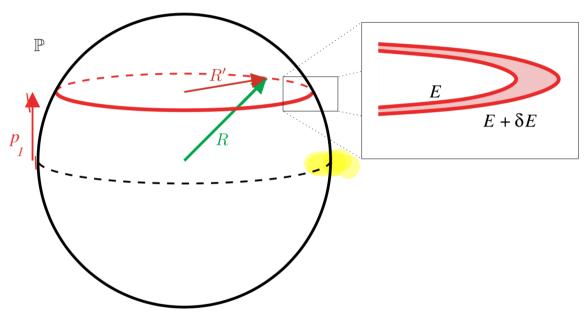
 $R = \sqrt{2mE'}$ -> 2N-1 SPHERE: 3N-1 $VOLUME: M(S_R) = 2r^{\frac{1}{2}}R^{\frac{1}{2}}\frac{1}{(\frac{1}{2})!}$

C(R(LE IN 20: L=Z = 1=1 V, T) R2 SPUTERE IN 20: L=Z = 1=3/77 Vo= 47/R2



R= 2me

[IX pi -> R' = 2m6-pi



2 "CIRCLES" FROM CUTTING "SPHERES"
BY PLANE p, = coust.

ANNUMER AREA =
$$d \mu \left(\frac{1}{2mE - p_i^2} \right)$$

$$= 2N - \left(\frac{3N - 1}{2} \right) \mu \left(\frac{2mE - p_i^2}{2} \right)$$

$$= \frac{3N - 1}{2} \left(\frac{3N - 1}{2} \right) \mu \left(\frac{2mE - p_i^2}{2} \right)$$

$$=\frac{(3N-1)m ?7}{\frac{3N-1}{2}}$$

$$\left(\frac{3}{2}\right)$$

$$\frac{R^{2}}{R^{3}} \left(\frac{R}{R}\right)^{2N}$$

$$\frac{R^{2}}{R^{3}} \left(\frac{R}{R}\right)^{2N} \left(\frac{R}{R}\right)^{2N}$$

$$\frac{R^{2}}{R^{2}} \left(\frac{R}{R}\right)^{2N} \left(\frac{R}{R}\right)^{2N}$$

$$\frac{R^{2}}{R^{2}} \left(\frac{R}\right)^{2N}$$

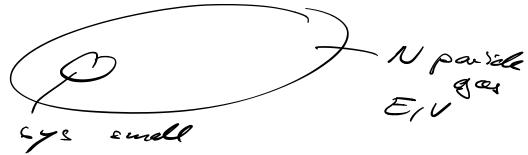
$$\frac{R^{2}}{R^{2}} \left(\frac{R}{R}\right)^{2N}$$

$$\frac{R^{2}}{R^{2}$$

$$\frac{2mE}{R^{3}} = \frac{2mE}{\left(2mE\left(1-\frac{p^{2}}{2mE}\right)\right)^{3/2}}$$

$$\sqrt{z} = \sqrt{z} =$$

KEY RESULTS



3) EQUIPARTITION

4) GENERAL CLASSICAL MONEUTUM DISTRIBUTION - MUNTIPLE GASES AND INTERACTIONS