Mos of the same of $f(\vec{p}) = \left(\frac{1}{2\pi k_BT}\right)^{3/2} \exp\left(-\frac{p^2}{2\pi k_BT}\right)$ (p, p) = (1) (2 1/3) (2 1/3) (2 1/4) (2 1/4) (2 1/4) (2 1/4) Pc-pi+pr=> Pi-Pr=Pr-pr=Pr-pr=Pr-pr Pr=P1-P2 => P2-2pr $\mathcal{P}_{z} = (\vec{p}_{1} - 2\vec{p}_{r}) \cdot (\vec{p}_{r})$ Pr= pr=1pt = p2 + 4pr - 4p, -pr P2 - [Pc + P2 - 2Pc - P2] + 4pr - $\vec{p}_1 - \vec{p}_2 = 2\vec{p}_1 + \vec{p}_2$ 18:18! Total energy must rinain fixed

Pi + Pz = Pc + Pr M= 2 m

SO (1) 3/2 exp(-Po) exp(-pr) exp(-pr) (2) (2) (kBT)

total energy

relative momenten disstribution Convert to Sphenzal (assumes distribution is isotropie and leads to alignment of coors along inter-partitle axis) = CRMer du de CodPe Per 2