Fourier

Fourier
etc
in
fine

a
min-
ma
o
?
?
?
?
?
Born
Op-
pen-
heimer
Eckart?
$oxyz$
$OXYZ$
R
α
$\vec{}$
r_α
α
$\vec{}$
a_α

$\vec{\rho_\alpha}=\vec{r_\alpha}-\vec{a_\alpha}$
(1)
$\vec{}$
v_α
α^{ieme}
$\vec{v_\alpha}=\vec{r_\alpha}=\vec{\rho_\alpha}$
$\vec{}$
a_α

$\vec{V_\alpha}=\vec{\dot{R}}+\left(\vec{\omega}\wedge\vec{r_\alpha}\right)+\vec{v_\alpha}$
(2)
$\dot{R}^2\sum_\alpha m_\alpha\left(\vec{\omega}\wedge\vec{r_\alpha}\right)^2+$
$\sum_\alpha m_\alpha v_\alpha^2$
+
$\vec{}$
$2\ \dot{R}$
$\sum_\alpha m_\alpha\ \vec{v_\alpha}$
+
$2\left(\vec{\dot{R}}\wedge\vec{\omega}\right)\sum_\alpha m_\alpha\ \vec{r_\alpha}$
+
$\vec{}$
$2\ \omega$
$\sum_\alpha m_\alpha\left(\vec{r_\alpha}\wedge\vec{v_\alpha}\right)$

$\sum_\alpha m_\alpha\ \vec{v_\alpha}=0$
(3)
$\sum_\alpha m_\alpha\ \vec{r_\alpha}=0$
(4)

$\sum_\alpha m_\alpha\left(\vec{a_\alpha}\wedge\vec{v_\alpha}\right)=0$
(5)
$\sum_\alpha m_\alpha\left(\vec{r_\alpha}\wedge\vec{v_\alpha}\right)=\sum_\alpha m_\alpha\left(\vec{\rho_\alpha}\wedge\vec{v_\alpha}\right)$
(6)
Eckart
??

$2T=\dot{R}^2\sum_\alpha m_\alpha+\sum_\alpha m_\alpha\left(\vec{\omega}\wedge\vec{r_\alpha}\right)^2+\sum_\alpha m_\alpha v_\alpha^2+2\ \vec{\omega}\sum_\alpha m_\alpha\left(\vec{r_\alpha}\wedge\vec{v_\alpha}\right)$
(7)
Cori-
o-
lis
$\vec{}$
$r_\alpha\approx\vec{a_\alpha}$
Casimir?

$2T_n=2T_R+2T_V ensupposant 2T_{VR}=0$
(8)
$\psi^n_{R_\alpha}=$
$\psi^R_{R_\alpha}\bullet$
$\psi^V_{R_\alpha}$
$E_n=$
E_V+
E_R
$\psi^R_{R_\alpha}$
$\psi^V_{R_\alpha}$