Sec 13: n particles of mass my I particle of mass M

Worth in comframe and write as a reduced in-particle

Com France:

m(x,+x,+x,)+M==0

Relative position vectors

the the

Multiply last in equations by in and subtract from 1st.

M Z + (nm Z = -m(r, + r, + + th)

(M+nm) 8 = -m (Fit Fit + ... +Fi)

Z = - m (", + ", 1 + ",)

 $\frac{\vec{x}_1 - \vec{x}_1 + \vec{x}}{\vec{x}_1 - \vec{x}_1 + \vec{x}}$ where \vec{x} given by along $\frac{\vec{x}_2}{\vec{x}_3} = \vec{x}_3 + \vec{x}$

= 1 m(15,12+1212+25,2

+ 12 + 1212 + 2 2 2)+ + M/2/2