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## **Contents**

Classical mechanics: systems of particles and Hamiltonian dynamics. Let a system consist of  $n$  particles with the position vectors  $\mathbf{r}_\nu$  and the masses  $m_\nu$  for  $\nu=(1,\dots,n)$ . The center of gravity of this system is then defined as proportional to the sum of position vectors, weighted with the respective masses.

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