

Classical Mechanics

Principle of Energy

(Uniform Field)

Particle

$$\mathbf{a}_A = \mathbf{a}_A$$

$$\int \mathbf{a}_A \cdot d\mathbf{r}_A = \int \mathbf{a}_A \cdot d\mathbf{r}_A$$

$$\int \mathbf{a}_A \cdot d\mathbf{r}_A = \Delta \frac{1}{2} \mathbf{v}_A^2$$

$$\int \mathbf{a}_A \cdot d\mathbf{r}_A = \Delta \mathbf{a}_A \cdot \mathbf{r}_A$$

$$\Delta \frac{1}{2} \mathbf{v}_A^2 = \Delta \mathbf{a}_A \cdot \mathbf{r}_A$$

$$\Delta \frac{1}{2} \mathbf{v}_A^2 - \Delta \mathbf{a}_A \cdot \mathbf{r}_A = 0$$

$$m_A \left(\Delta \frac{1}{2} \mathbf{v}_A^2 - \Delta \mathbf{a}_A \cdot \mathbf{r}_A \right) = 0$$

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Biparticle

$$\mathbf{a}_{AB} = \mathbf{a}_{AB}$$

$$\int \mathbf{a}_{AB} \cdot d\mathbf{r}_{AB} = \int \mathbf{a}_{AB} \cdot d\mathbf{r}_{AB}$$

$$\int \mathbf{a}_{AB} \cdot d\mathbf{r}_{AB} = \Delta \frac{1}{2} \mathbf{v}_{AB}^2$$

$$\int \mathbf{a}_{AB} \cdot d\mathbf{r}_{AB} = \Delta \mathbf{a}_{AB} \cdot \mathbf{r}_{AB}$$

$$\Delta \frac{1}{2} \mathbf{v}_{AB}^2 = \Delta \mathbf{a}_{AB} \cdot \mathbf{r}_{AB}$$

$$\Delta \frac{1}{2} \mathbf{v}_{AB}^2 - \Delta \mathbf{a}_{AB} \cdot \mathbf{r}_{AB} = 0$$

$$m_{AB} \left(\Delta \frac{1}{2} \mathbf{v}_{AB}^2 - \Delta \mathbf{a}_{AB} \cdot \mathbf{r}_{AB} \right) = 0$$