PSE Game Physics

Session (7a)
Angular momentum extended

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5. Solve the equation by f and set $\vec{v}_l := \vec{v}_l + f \cdot \Delta\vec{v}_l$, $\vec{v}_r := \vec{v}_r + f \cdot \Delta\vec{v}_r$.

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- Energy conservation: If $C_r = 1$, the total kinetic energy is invariant, where $E_{kin} = \sum \frac{1}{2} m \vec{v}_l^2 + \frac{1}{2} \vec{v}_r^T I \vec{v}_r$. If $C_r < 1$, E_{kin} decreases.

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$\rightarrow$ Use your knowledge of the model!