Moment umnyroca cuco. MT onu moran, otu. ocu. yp-e momentol. 3 cmu.

def.

Def.
$$\vec{l} = [\vec{r}, \vec{p}] = m[\vec{r}, \vec{r}] - moment uningrace gan MT omn. navara oronema o $\vec{l}_0 = \sum m: [\vec{r}, \vec{r}, \vec{r}]$ encrema MT $\vec{l}_0 = \int p[\vec{r}, \vec{r}] dV$ uponzionarior Tero$$

nperospagobanne nomensa umn. nhu ujm. navana viviema

$$\vec{l}_{o} = \sum_{i} m_{i} \left[\vec{r}_{i}; \vec{v}_{i} \right] = \\
= \sum_{i} m_{i} \left[\vec{r}_{i}; \vec{v}_{i} \right] + \sum_{i} m_{i} \left[\vec{r}_{i}; \vec{v} \right] + \sum_{i} m_{i} \left[\vec{R}, \vec{v}_{i}' \right] + \sum_{i} m_{i} \left[\vec{R}, \vec{v}_{i}' \right] + \\
= \vec{l}_{o}i + m \left[\vec{R}_{c}^{\dagger}; \vec{V} \right] + \left[\vec{R}, \vec{p}^{\dagger} \right] + m \left[\vec{R}; \vec{V} \right]$$

econy
$$0' - y$$
, wace, no $\vec{p}' = \vec{0}$ or $\vec{R}'_{i} = \vec{0}$

$$= \vec{L}_{0}, + m[\vec{R}; \vec{V}] = \vec{L}_{0}, + [\vec{R}, \vec{p}']$$

ypre moneurol

$$\frac{d\vec{L}}{dt} = \frac{d[\vec{r},\vec{p}]}{dt} = \left[\frac{d\vec{r}}{dt};\vec{p}\right] + \left[\vec{r};\frac{d\vec{p}}{dt}\right] = \left[\vec{r};\vec{F}\right] = M$$
womenon can

hyens nasop enn mans, une $\overline{z}F_i=\overline{o}$.
Torga cymnapuni nomen en en galneur or burge nar ororera.

BCMU

6 yeurpanuon none nonent un nyrser mena coxp-cq

=> Tpaennopus - uno mane upusan

=> Vien = wons+

a meneter otrocuterous occi

Def. моментом импулоса от. оси наз-се проенция вектора момента импульса на эту осг.

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$$= \left(\begin{bmatrix} r_1, p_1 \end{bmatrix} \right)_{\frac{1}{4}} = \left(R; p_1 \right)_{\frac{1}{4}} = Rp_1, \quad p_1 = p_1 \text{ sin } q$$