I. マヨカ解为マーマル+マュ V1 = (V. F) F $\overline{V_I} = \overline{V} - \overline{V_{\parallel}}$ $\Leftrightarrow t \neq 0$ 旋转后跟旋转轴平行的 白量不变 FGLL Viot 1 = V11 同样Viot = Viota + Viot_ Viot 可分解为 Viot_ = Case VI + (sin 日下)xマ FE Vint = Vint + Vint 11 = sinOZ × V + cost V1 + (V. E) Z = SIND RXV + COSO (V-V4)+(V.E)E = Sind Ex V + cos O (V-(V.E))+(V.E)) = sind Ex + cos O V+ (1-coso) (V.E) E = WSO V+ (1- WSO) ZETV+ SINDE 17 = (ws OI+ (1-ws 0) FRI+ sin OR) V FALL R = cosOI+(1-coso) EET + sinOE 1

 $\begin{array}{ll}
\mathcal{R}^{T} = \omega \varsigma \theta \mathcal{L} + (I - \omega \varsigma \theta) \mathcal{R} \mathcal{R}^{T} + \varsigma in \theta (\mathcal{E}^{\Lambda})^{T} \\
\mathcal{R}^{T} \mathcal{R} = (\omega \varsigma \theta \mathcal{I} + U - \omega \varsigma \theta) \mathcal{R} \mathcal{R}^{T} + \varsigma in \theta (\mathcal{E}^{\Lambda})^{T} \right) \cdot \\
(\omega \varsigma \theta \mathcal{I} + (I - \omega \varsigma \theta) \mathcal{R} \mathcal{R}^{T} + \varsigma in \theta \mathcal{R}^{\Lambda} \right) \\
= \omega \varsigma \theta^{2} \mathcal{I} + \lambda \omega \varsigma \theta (I - \omega \varsigma \theta) \mathcal{R} \mathcal{R}^{T} + \omega \varsigma \theta \varsigma in \theta \mathcal{R}^{\Lambda} \\
+ (I - \omega \varsigma \theta)^{2} (\mathcal{R}^{T})^{2} + \varsigma in \theta (I - \omega \varsigma \theta) \mathcal{R}^{T} \mathcal{R}^{T} + \omega \varsigma \theta \varsigma in \theta (\mathcal{R}^{\Lambda})^{T} + \varsigma in \theta (I - \omega \varsigma \theta) (\mathcal{R}^{\Lambda})^{T} \mathcal{R}^{T} + \varsigma in \theta^{2} (\mathcal{R}^{\Lambda})^{T} \mathcal{R}^{\Lambda} \\
= \mathcal{I}
\end{array}$