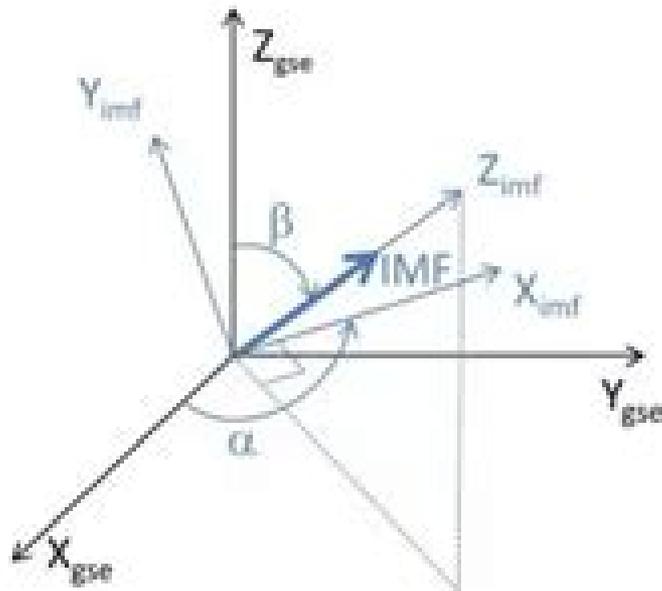


Conversion of coordinate



IMF coordinate

X_{imf} is in X_{gse} - Y_{gse} plane

Y_{imf} is pointing north ward, and in Z_{imf} - Z_{gse} plane

α = GSE longitude of IMF + 90°

β = GSE colatitude of IMF

IMF to GSE : rot $+\beta$ on X_{imf} and rot $+\alpha$ on Z_{gse} and

$$\begin{pmatrix} x_{gse} \\ y_{gse} \\ z_{gse} \end{pmatrix} = \begin{pmatrix} \cos \alpha & -\sin \alpha & 0 \\ \sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \beta & -\sin \beta \\ 0 & \sin \beta & \cos \beta \end{pmatrix} \begin{pmatrix} x_{imf} \\ y_{imf} \\ z_{imf} \end{pmatrix}$$

GSE to IMF : rot $-\alpha$ on Z_{gse} and rot $-\beta$ on X_{imf}

$$\begin{pmatrix} x_{imf} \\ y_{imf} \\ z_{imf} \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \beta & \sin \beta \\ 0 & -\sin \beta & \cos \beta \end{pmatrix} \begin{pmatrix} \cos \alpha & \sin \alpha & 0 \\ -\sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} x_{gse} \\ y_{gse} \\ z_{gse} \end{pmatrix}$$

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Yicheng Fang



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