$$e=(1{:}0)\in\left\{\Gamma_{m}^{\nabla_0}\Gamma\times_{\mho}K \;\; {}_{\mho}\mathbb{K}_{m+k}\right\} = \frac{(u{:}v)\in\left\{\Gamma_{m}^{\nabla_0}\Gamma\times K \;\; \mathbb{K}_{m+k}\right\}}{\begin{bmatrix}1 & u & v\end{bmatrix}\begin{array}{c|cc}0 & 1 & 0\\ \hline 1 & 0 & 0\\ 0 & 0 & -1\end{array}\begin{bmatrix}1\\ \overset{*}{u}\\ \overset{*}{v}\end{bmatrix}=u+\overset{*}{u}-v\overset{*}{v}>0}\subset\left\{\Gamma_{m}^{\nabla_0}\Gamma\times_{\mho}K \;\; \mathbb{K}_{m+k}\right\}$$

$$(u{:}v)\ S_e=(u{:}v)\ \operatorname{Int}\ \mho=\left(u^{-1}{:}-u^{-1}v\right)$$

$$e=\begin{array}{c|c}1 & 0\\ \hline 0 & 0\end{array}\in\left\{\Gamma\times H_{m+\ell}^{\nabla_0}\Gamma\times_{\mho}K \;\; {}_{\mho}\mathbb{K}_{m+k}\right\}=\frac{\triangleleft=\begin{array}{c|c}u & v\\ \hline \Upsilon & w\end{array}\in\left\{\Gamma\times H_{m+\ell}^{\nabla_0}\Gamma\times K \;\; {}_{\mho}\mathbb{K}_{m+k}\right\}}{\begin{bmatrix}1 & \triangleleft\end{bmatrix}\begin{array}{cc|cc}0 & 0 & 1 & 0\\ 0 & 1 & 0 & 0\\ \hline 1 & 0 & 0 & 0\\ 0 & 0 & 0 & -1\end{array}\begin{bmatrix}1\\ \triangleleft^{*}\end{bmatrix}=\begin{array}{c|c}u+\overset{*}{u}-v\overset{*}{v} & \overset{*}{\Upsilon}-v\overset{*}{w}\\ \hline \Upsilon-w\overset{*}{v} & 1-w\overset{*}{w}\end{array}>0}\subset\left\{\Gamma\times H_{m+\ell}^{\nabla_0}\Gamma\times_{\mho}K \;\; {}_{\mho}\mathbb{K}_{m+k}\right\}$$

$$1-w\overset{*}{w}>0{:}u+\overset{*}{u}-\Re\, v\overbrace{\underbrace{1-w\overset{*}{w}}^{-1}\underbrace{\overset{*}{v}-\overset{*}{w}\Upsilon}+\underbrace{\overset{*}{\Upsilon}-v\overset{*}{w}}\underbrace{1-w\overset{*}{w}}^{-1}\Upsilon}>0$$

$$\begin{array}{c|c}u & v\\ \hline \Upsilon & w\end{array}\ S_e=\begin{array}{c|c}u & v\\ \hline \Upsilon & w\end{array}\ \operatorname{Int}\ \mho=\begin{array}{c|c}u^{-1} & -u^{-1}v\\ \hline -\Upsilon u^{-1} & -w\end{array}$$

$$e=\begin{bmatrix}0 & 1 & 0\\ -1 & 0 & 0\\ 0 & 0 & 0\end{bmatrix}\in\left\{K\times K\times H_{2m+k}^{\ni}{}^{\nabla_0^{\ni}}K\times K_{\vartheta}\times H \;\; {}_{\mho}\mathbb{K}_{2m+k}\right\}=$$

$$\frac{\triangleleft=\begin{bmatrix}a & b & v\\ -\overset{t}{b} & d & y\\ -\overset{t}{v} & -\overset{t}{y} & w\end{bmatrix}\in\left\{K\times K\times H_{2m+k}^{\ni}{}^{\nabla_0^{\ni}}K\times K\times H \;\; {}_{\mho}\mathbb{K}_{2m+k}\right\}}{\begin{bmatrix}1 & \triangleleft\end{bmatrix}\begin{array}{ccc|ccc}0 & 0 & 0 & 0 & 1 & 0\\ 0 & 0 & 0 & -1 & 0 & 0\\ 0 & 0 & 1 & 0 & 0 & 0\\ \hline 0 & -1 & 0 & 0 & 0 & 0\\ 1 & 0 & 0 & 0 & 0 & 0\\ 0 & 0 & 0 & 0 & 0 & -1\end{array}\begin{bmatrix}1\\ \triangleleft^{*}\end{bmatrix}=\begin{bmatrix}b+\overset{*}{b}-v\overset{*}{v} & -a+\overset{*}{d}-v\overset{*}{y} & -\bar{y}-v\overset{*}{w}\\ d-\overset{*}{a}-y\overset{*}{v} & \overset{t}{b}+\bar{b}-y\overset{*}{y} & \bar{v}-y\overset{*}{w}\\ -\overset{t}{y}-w\overset{*}{v} & \overset{t}{v}-w\overset{*}{y} & 1-w\overset{*}{w}\end{bmatrix}>0}\subset\left\{K\times K\times H_{2m+k}^{\ni}{}^{\nabla_0^{\ni}}K\times K_{\mho}\times H \;\; {}_{\mho}\mathbb{K}_{2m+k}\right\}$$

$$\begin{bmatrix}a & b & v\\ -\overset{t}{b} & d & y\\ -\overset{t}{v} & -\overset{t}{y} & w\end{bmatrix}S_e=\begin{bmatrix}a & b & v\\ -\overset{t}{b} & d & y\\ -\overset{t}{v} & -\overset{t}{y} & w\end{bmatrix}\operatorname{Int}\ \mho=\begin{array}{c|c}\begin{pmatrix}-d & -\overset{t}{b}\\ b & -a\end{pmatrix}^{-1} & -\begin{pmatrix}b & -a\\ d & \overset{t}{b}\end{pmatrix}^{-1}\begin{bmatrix}v\\ y\end{bmatrix}\\ \hline \begin{bmatrix}\overset{t}{y} & -\overset{t}{v}\end{bmatrix}\begin{pmatrix}-d & -\overset{t}{b}\\ b & -a\end{pmatrix}^{-1} & -\begin{bmatrix}\overset{t}{y} & -\overset{t}{v}\end{bmatrix}\begin{pmatrix}b & -a\\ d & \overset{t}{b}\end{pmatrix}^{-1}\begin{bmatrix}v\\ y\end{bmatrix}-w\end{array}$$