

$$\mathbb{K}_n \xrightarrow{m} = \frac{\Gamma \subset \mathbb{K}_n}{\dim \Gamma = m}$$

$$\text{cpt } {}^m\mathbb{K}_n^U \xrightarrow{\text{surj}} \mathbb{K}_n \xrightarrow{m} \text{quo-top cpt}$$

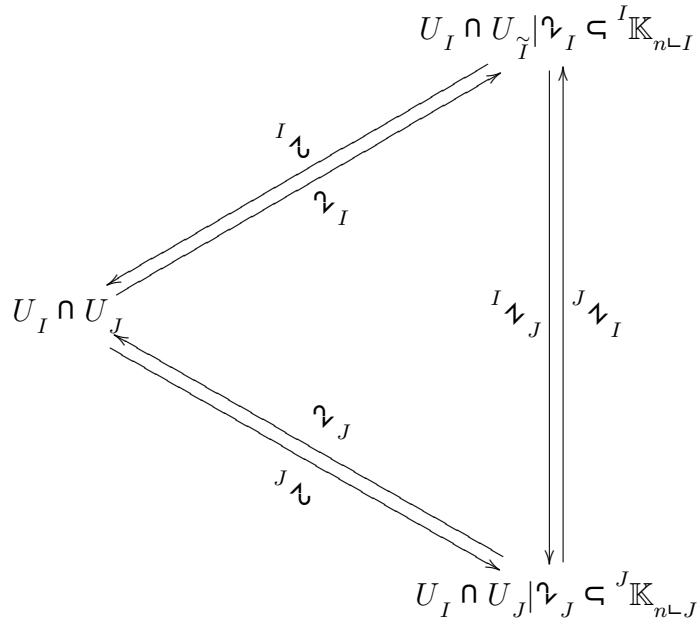
$$\mathbb{K}_n \xrightarrow{m} \supset U_I = \frac{\mathbb{K}[\Gamma_1 \cdots \Gamma_n]}{\Gamma_i \neq 0} \xleftarrow{i_{\mathcal{L}}} \xrightarrow{\mathcal{V}_i} {}^I\mathbb{K}_{n-I} \in \mathbb{K}_{\triangleleft} \Rightarrow \mathcal{V}_I \mathcal{L}^I = i|U_I$$

$$[\Gamma_1 \ \hat{\Gamma}_i \ \Gamma_n] \overset{i_{\mathcal{L}}}{\mathcal{V}_i} = (\mathbb{K}[\Gamma_1 \ 1 \ \Gamma_n]) \mathcal{V}_i = \left[ \begin{array}{c|c|c} \Gamma_1 & \hat{1} & \Gamma_n \\ \hline 1 & 1 & 1 \end{array} \right] = [\Gamma_1 \ \hat{\Gamma}_i \ \Gamma_n] \Rightarrow {}^I\mathcal{L} \mathcal{V}_I = i$$

$$\frac{(U_I: \mathcal{V}_I)}{I \in \begin{bmatrix} n \\ m \end{bmatrix}} \text{Atlas } \mathbb{K}_n \xrightarrow{m} \in \mathbb{K}_{\triangleleft}$$

overdeck  $U_I$  of  $\mathbb{K}_n \xrightarrow{m}$

overlap



	$I^\# \cap J$	$I^\# \cap J^\#$
$I \cap J^\#$	$u$	$v$
$I \cap J$	$\vee$	$w$

 $= \mathcal{L} \mapsto \mathcal{L} \overset{I_{\mathcal{L}J}}{\mathcal{V}_J}$ 

	$J^\# \cap I$	$J^\# \cap I^\#$
$J \cap I^\#$	$u^{-1}$	$u^{-1}v$
$J \cap I$	$-\vee u^{-1}$	$w - \vee u^{-1}\mathcal{L}$

$$\mathbb{P}_0 \circ \Gamma \stackrel{\text{Grass}}{=} \frac{\Gamma \supset \mathbb{P} \times \Gamma}{\Gamma \sim \mathbb{P} \times 0} \supset \mathbb{P}_0 \Gamma$$

$$\Gamma(1:\mathbb{F}) \leftarrow \mathbb{F}$$

$${}^m\mathbb{K}_n = \frac{\Gamma \supset \mathbb{K}_{m+n}}{\Gamma \sim \mathbb{K}_m \times 0} \supset {}^m\mathbb{K}_n$$

$$\mathbb{K}_m(1:\mathbb{F}) \leftarrow \mathbb{F}$$

$$\mathbb{F} S_0 = -\mathbb{F}$$

$$S_0 = \text{Int } \mathbb{U}$$

$$\mathbb{U} = \frac{1 \mid 0}{0 \mid -1}$$