

$\mathbb{K}\langle L \times T \rangle =$ free K -vector space basis $\frac{L:T}{L \in L: T \in T}$

$$\langle L \times T \rangle = \mathbb{K}\langle L \times T \rangle = \mathbb{K} \left\{ \begin{array}{l} \overline{\alpha L + \alpha' L : T} - \alpha \overline{L : T} - \alpha' \overline{L' : T} \\ \overline{L : T \alpha + T \alpha'} - \overline{L : T} \alpha - \overline{L : T} \alpha' \end{array} \right\} = \mathbb{K} \left\{ \begin{array}{l} \overline{\alpha L + \alpha' L' : T} - \alpha \overline{L : T} - \alpha' \overline{L' : T} \\ \overline{L : T \alpha + T \alpha'} - \overline{L : T} \alpha - \overline{L : T} \alpha' \end{array} \right\}$$

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