

$$MN \supset G = MN \supset \underline{K \times A \times N} = \underline{M \supset K} \times A$$

$$M \supset K = \mathbb{S}_{1:\dots:1}^Z \ni \underline{e_1:\dots:e_r}$$

$$A = \mathbb{R}_>^r \ni \underline{t_1:\dots:t_r}$$

$$MN \supset G \ni \underline{e_1:\dots:e_r} : \underline{t_1:\dots:t_r} \mapsto e_1 t_1 + \dots + e_r t_r$$