

$$\begin{array}{c} y & & z \\ & \diagdown & / \\ & x \end{array} \times \begin{array}{c} \beta \\ | \\ \alpha \end{array} = \begin{array}{ccccc} \langle z, \beta \rangle & & & & \langle y, \beta \rangle \\ & | & \diagdown & & | \\ \langle z, \alpha \rangle & & \langle x, \beta \rangle & & \langle y, \alpha \rangle \\ & \diagdown & | & \diagup & \\ & \langle x, \alpha \rangle & & & \end{array}$$