

$$\begin{aligned} &\overrightarrow{H} \ E\overrightarrow{P} \ | \overrightarrow{H} \rangle = (\overrightarrow{E} \overrightarrow{H}, \overrightarrow{E} \overrightarrow{F}) + \overrightarrow{E} \overrightarrow{K} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{H} \rangle \\ &= (\overrightarrow{R} + \overrightarrow{\mu}) \overrightarrow{E} \overrightarrow{F} \ | \overrightarrow{F}$$

