Results with all scalar variables declared as real

$$X = t\gamma_t + x\gamma_x + y\gamma_y + z\gamma_z + w\gamma_w$$

$$K = k^t\gamma_t + k^x\gamma_x + k^y\gamma_y + k^z\gamma_z + k^w\gamma_w$$

$$K \cdot X = k^tt - k^ww - k^xx - k^yy - k^zz$$

$$I^2 = 1$$

$$I_{xyzw} = I\gamma_x\gamma_y\gamma_z\gamma_w = \gamma_t$$

$$(I\gamma_x\gamma_y\gamma_z\gamma_w)^2 = 1$$

$$e^{I_{xyzw}K \cdot X} = \cos\left(-k^tt + k^ww + k^xx + k^yy + k^zz\right) - \sin\left(-k^tt + k^ww + k^xx + k^yy + k^zz\right)\gamma_t$$