## Spinor amplitudes

$$
\begin{array}{rcccccccc}
O_1 = & \overline{U} & \gamma_\nu p_- & U & \cdot & \overline{V} & \gamma_\nu p_- & V \\
O_2 = & \overline{U} & \gamma_\nu p_- & U & \cdot & \overline{V} & \gamma_\nu \hat{q}_1 \hat{q}_3 p_- & V \\
O_3 = & \overline{U} & \hat{q}_2 p_- & U & \cdot & \overline{V} & \hat{q}_1 p_- & V \\
O_4 = & \overline{U} & \hat{q}_2 p_- & U & \cdot & \overline{V} & \hat{q}_3 p_- & V \\
O_5 = & \overline{U} & \hat{q}_5 p_- & U & \cdot & \overline{V} & \hat{q}_1 p_- & V \\
O_6 = & \overline{U} & \hat{q}_5 p_- & U & \cdot & \overline{V} & \hat{q}_3 p_- & V \\
O_7 = & \overline{U} & \gamma_\mu \gamma_\nu \gamma_\rho p_- & U & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \gamma_\rho p_- & V \\
O_8 = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_2 p_- & U & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_1 p_- & V \\
O_9 = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_2 p_- & U & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_3 p_- & V \\
O_{10} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_5 p_- & U & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_1 p_- & V \\
O_{11} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_5 p_- & U & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_3 p_- & V \\
O_{12} = & \overline{U} & \gamma_\nu \hat{q}_2 \hat{q}_5 p_- & U & \cdot & \overline{V} & \gamma_\nu p_- & V \\
O_{13} = & \overline{U} & \gamma_\nu p_- & V & \cdot & \overline{V} & \gamma_\nu p_\pm & U \\
O_{14} = & \overline{U} & \gamma_\nu p_- & V & \cdot & \overline{V} & \gamma_\nu \hat{q}_3 \hat{q}_5 p_\pm & U \\
O_{15} = & \overline{U} & \hat{q}_1 p_- & V & \cdot & \overline{V} & \hat{q}_3 p_\pm & U \\
O_{16} = & \overline{U} & \hat{q}_1 p_- & V & \cdot & \overline{V} & \hat{q}_5 p_\pm & U \\
O_{17} = & \overline{U} & \hat{q}_2 p_- & V & \cdot & \overline{V} & \hat{q}_3 p_\pm & U \\
O_{18} = & \overline{U} & \hat{q}_2 p_- & V & \cdot & \overline{V} & \hat{q}_5 p_\pm & U \\
O_{19} = & \overline{U} & \gamma_\mu \gamma_\nu \gamma_\rho p_- & V & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \gamma_\rho p_\pm & U \\
O_{20} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_1 p_- & V & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_3 p_\pm & U \\
O_{21} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_1 p_- & V & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_5 p_\pm & U \\
O_{22} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_2 p_- & V & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_3 p_\pm & U \\
O_{23} = & \overline{U} & \gamma_\mu \gamma_\nu \hat{q}_2 p_- & V & \cdot & \overline{V} & \gamma_\mu \gamma_\nu \hat{q}_5 p_\pm & U \\
O_{24} = & \overline{U} & \gamma_\nu \hat{q}_1 \hat{q}_2 p_- & V & \cdot & \overline{V} & \gamma_\nu p_\pm & U
\end{array}
$$

where

$$p_\pm = \frac{1}{2}(1 \pm \gamma_5)$$