i	$f_i(\Omega)$	$\Gamma_i^{\mathrm{tr}}(q^2)$
1	$P_0^0 Y_0^0$	$[|H_0|^2 + |H_\parallel|^2 + |H_\perp|^2 + |S|^2 + |D_0|^2 + |D_\parallel|^2 + |D_\perp|^2]$
2	$P_1^0 Y_0^0$	$2\left[\frac{2}{\sqrt{5}}Re(H_0 D_0^*) + Re(SH_0^*) + \sqrt{\frac{3}{5}}\,Re(H_\parallel D_\parallel^* + H_\perp D_\perp^*)\right]$
3	$P_2^0 Y_0^0$	$\frac{\sqrt{5}}{7}\left(|D_\parallel|^2 + |D_\perp|^2\right) - \frac{1}{\sqrt{5}}\left(|H_\parallel|^2 + |H_\perp|^2\right) + \frac{2}{\sqrt{5}}|H_0|^2 + \frac{10}{7\sqrt{5}}|D_0|^2 + 2\,Re(SD_0^*)$
4	$P_3^0 Y_0^0$	$\frac{6}{\sqrt{35}}\left[-Re(H_\parallel D_\parallel^* + H_\perp D_\perp^*) + \sqrt{3}Re(H_0 D_0^*)\right]$
5	$P_4^0 Y_0^0$	$\frac{2}{7}\left[-2(|D_\parallel|^2 + |D_\perp|^2) + 3|D_0|^2\right]$
6	$P_0^0 Y_2^0$	$\frac{1}{2\sqrt{5}}\left[(|D_\parallel|^2 + |D_\perp|^2) + (|H_\parallel|^2 + |H_\perp|^2) - 2|S|^2 - 2|D_0|^2 - 2|H_0|^2\right]$
7	$P_1^0 Y_2^0$	$\frac{\sqrt{3}}{5}Re(H_\parallel D_\parallel^* + H_\perp D_\perp^*) - \frac{2}{\sqrt{5}}Re(SH_0^*) - \frac{4}{5}Re(H_0 D_0^*)$
8	$P_2^0 Y_2^0$	$\frac{1}{14}(|D_\parallel|^2 + |D_\perp|^2) - \frac{2}{7}|D_0|^2 - \frac{1}{10}(|H_\parallel|^2 + |H_\perp|^2) - \frac{2}{5}|H_0|^2 - \frac{2}{\sqrt{5}}Re(SD_0^*)$
9	$P_3^0 Y_2^0$	$-\frac{3}{5\sqrt{7}}\left[Re(H_\parallel D_\parallel^* + H_\perp D_\perp^*) + 2\sqrt{3}\,Re(H_0 D_0^*)\right]$
10	$P_4^0 Y_2^0$	$-\frac{2}{7\sqrt{5}}\left[|D_\parallel|^2 + |D_\perp|^2 + 3|D_0|^2\right]$
11	$P_1^1 \sqrt{2}\,Re(Y_2^1)$	$-\frac{3}{\sqrt{10}}\left[\sqrt{\frac{2}{3}}Re(H_\parallel S^*) - \sqrt{\frac{2}{15}}Re(H_\parallel D_0^*) + \sqrt{\frac{2}{5}}Re(D_\parallel H_0^*)\right]$
12	$P_2^1 \sqrt{2}\,Re(Y_2^1)$	$-\frac{3}{5}\left[Re(H_\parallel H_0^*) + \sqrt{\frac{5}{3}}Re(D_\parallel S^*) + \frac{5}{7\sqrt{3}}Re(D_\parallel D_0^*)\right]$
13	$P_3^1 \sqrt{2}\,Re(Y_2^1)$	$-\frac{6}{5\sqrt{14}}\left[2\,Re(D_\parallel H_0^*) + \sqrt{3}\,Re(H_\parallel D_0^*)\right]$
14	$P_4^1 \sqrt{2}\,Re(Y_2^1)$	$-\frac{6}{7\sqrt{2}}Re(D_\parallel D_0^*)$
15	$P_1^1 \sqrt{2}\,Im(Y_2^1)$	$3\left[\frac{1}{\sqrt{15}}Im(H_\perp S^*) + \frac{1}{5}Im(D_\perp H_0^*) - \frac{1}{5\sqrt{3}}Im(H_\perp D_0^*)\right]$
16	$P_2^1 \sqrt{2}\,Im(Y_2^1)$	$3\left[\frac{1}{7\sqrt{3}}Im(D_\perp D_0^*) + \frac{1}{5}Im(H_\perp H_0^*) + \frac{1}{\sqrt{15}}Im(D_\perp S^*)\right]$
17	$P_3^1 \sqrt{2}\,Im(Y_2^1)$	$\frac{6}{5\sqrt{14}}\left[2\,Im(D_\perp H_0^*) + \sqrt{3}\,Im(H_\perp D_0^*)\right]$
18	$P_4^1 \sqrt{2}\,Im(Y_2^1)$	$\frac{6}{7\sqrt{2}}Im(D_\perp D_0^*)$
19	$P_0^0 \sqrt{2}\,Re(Y_2^2)$	$-\frac{3}{2\sqrt{15}}\left[(|H_\parallel|^2 - |H_\perp|^2) + (|D_\parallel|^2 - |D_\perp|^2)\right]$
20	$P_1^0 \sqrt{2}\,Re(Y_2^2)$	$-\frac{3}{5}\left[Re(H_\parallel D_\parallel^*) - Re(D_\perp H_\perp^*)\right]$
21	$P_2^0 \sqrt{2}\,Re(Y_2^2)$	$\frac{\sqrt{3}}{5}\left[-\frac{1}{7}(|D_\parallel|^2 - |D_\perp|^2) + \frac{1}{5}(|H_\parallel|^2 - |H_\perp|^2)\right]$
22	$P_3^0 \sqrt{2}\,Re(Y_2^2)$	$\frac{3}{5}\sqrt{\frac{3}{7}}\left[Re(H_\parallel D_\parallel^*) - Re(D_\perp H_\perp^*)\right]$
23	$P_4^0 \sqrt{2}\,Re(Y_2^2)$	$\frac{2}{7}\sqrt{\frac{3}{5}}(|D_\parallel|^2 - |D_\perp|^2)$
24	$P_0^0 \sqrt{2}\,Im(Y_2^2)$	$\sqrt{\frac{3}{5}}\left[Im(H_\perp H_\parallel^*) + Im(D_\perp D_\parallel^*)\right]$
25	$P_1^0 \sqrt{2}\,Im(Y_2^2)$	$\frac{3}{5}Im(H_\perp D_\parallel^* + D_\perp H_\parallel^*)$
26	$P_2^0 \sqrt{2}\,Im(Y_2^2)$	$\sqrt{3}\left[\frac{1}{7}Im(D_\perp D_\parallel^*) - \frac{1}{5}Im(H_\perp H_\parallel^*)\right]$
27	$P_3^0 \sqrt{2}\,Im(Y_2^2)$	$-\frac{3}{5}\sqrt{\frac{3}{7}}Im(D_\perp H_\parallel^* + H_\perp D_\parallel^*)$
28	$P_4^0 \sqrt{2}\,Im(Y_2^2)$	$-\frac{4}{7}\sqrt{\frac{3}{5}}Im(D_\perp D_\parallel^*)$