<table>
<thead>
<tr>
<th>$i$</th>
<th>$f_i(\Omega)$</th>
<th>$\Gamma_{i,\text{tot}}^V(q^2)/k_0^2$</th>
<th>$\eta_{i,\text{tot}}^{L,R}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$P_0^1Y_0^0$</td>
<td>$</td>
<td>H_L</td>
</tr>
<tr>
<td>2</td>
<td>$P_1^0Y_0^0$</td>
<td>$2 \left[ \frac{2}{\sqrt{3}} Re(H_L^L D_L^T) + Re(S_L^H L^T) + \frac{\sqrt{3}}{2} Re(H_L^L D_L^T + H_L^L D_L^T) \right]$</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>$P_{2}^0Y_0^0$</td>
<td>$\frac{\sqrt{2}}{2} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>4</td>
<td>$P_3^0Y_0^0$</td>
<td>$\frac{3}{\sqrt{3}} \left( -Re(H_L^L D_L^T + H_L^L D_L^T) + \sqrt{3} Re(H_L^L D_L^T) \right)$</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>$P_4^0Y_0^0$</td>
<td>$\frac{2}{3} - 2(</td>
<td>D_L</td>
</tr>
<tr>
<td>6</td>
<td>$P_0^0Y_0^0$</td>
<td>$\frac{1}{2\sqrt{3}} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>7</td>
<td>$P_1^0Y_0^0$</td>
<td>$\frac{\sqrt{3}}{6} Re(H_L^L D_L^T + H_L^L D_L^T) - \frac{2}{\sqrt{3}} Re(S_L^H H_L^T) - \frac{1}{\sqrt{3}} Re(H_L^L D_L^T)$</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>$P_{2}^0Y_0^0$</td>
<td>$\frac{1}{12} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>9</td>
<td>$P_3^0Y_0^0$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>10</td>
<td>$P_4^0Y_0^0$</td>
<td>$-\frac{2}{\sqrt{3}} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>11</td>
<td>$P_1^1\sqrt{2} Re(Y_1^0)$</td>
<td>$\frac{3}{\sqrt{3}} Re(H_L^L D_L^T) - \frac{3}{\sqrt{3}} \left( Re(H_L^L D_L^T) - \frac{2}{\sqrt{3}} Re(S_L^H H_L^T) + \frac{1}{\sqrt{3}} Re(H_L^L D_L^T) \right)$</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>$P_2^1\sqrt{2} Re(Y_1^0)$</td>
<td>$\frac{2}{3} Re(H_L^L D_L^T) - \frac{2}{\sqrt{3}} Re(S_L^H H_L^T) - \frac{1}{\sqrt{3}} Re(H_L^L D_L^T)$</td>
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<tr>
<td>13</td>
<td>$P_3^1\sqrt{2} Re(Y_1^0)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
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<tr>
<td>14</td>
<td>$P_4^1\sqrt{2} Re(Y_1^0)$</td>
<td>$\frac{2}{3} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>15</td>
<td>$P_1^1\sqrt{2} Im(Y_1^0)$</td>
<td>$\frac{1}{\sqrt{3}} Im(H_L^L D_L^T) + \frac{1}{\sqrt{3}} Im(D_L^L H_L^T) - \frac{1}{\sqrt{3}} Im(H_L^L D_L^T)$</td>
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<tr>
<td>16</td>
<td>$P_2^1\sqrt{2} Im(Y_1^0)$</td>
<td>$\frac{1}{\sqrt{3}} Im(D_L^L H_L^T) + \frac{1}{\sqrt{3}} Im(H_L^L D_L^T) + \frac{1}{\sqrt{3}} Im(D_L^L S_L^T)$</td>
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<td>17</td>
<td>$P_3^1\sqrt{2} Im(Y_1^0)$</td>
<td>$\frac{2}{3} \left(</td>
<td>H_L</td>
</tr>
<tr>
<td>18</td>
<td>$P_4^1\sqrt{2} Im(Y_1^0)$</td>
<td>$\frac{2}{3} \left(</td>
<td>D_L</td>
</tr>
<tr>
<td>19</td>
<td>$P_0^0\sqrt{2} Re(Y_0^1)$</td>
<td>$\frac{3}{\sqrt{3}} \left(</td>
<td>H_L</td>
</tr>
<tr>
<td>20</td>
<td>$P_1^0\sqrt{2} Re(Y_0^1)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>21</td>
<td>$P_2^0\sqrt{2} Re(Y_0^1)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>22</td>
<td>$P_3^0\sqrt{2} Re(Y_0^1)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>23</td>
<td>$P_4^0\sqrt{2} Re(Y_0^1)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>24</td>
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<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>25</td>
<td>$P_1^1\sqrt{2} Im(Y_0^2)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>26</td>
<td>$P_2^1\sqrt{2} Im(Y_0^2)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>27</td>
<td>$P_3^1\sqrt{2} Im(Y_0^2)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
<tr>
<td>28</td>
<td>$P_4^1\sqrt{2} Im(Y_0^2)$</td>
<td>$\frac{3}{\sqrt{3}} \left( 2</td>
<td>H_L</td>
</tr>
</tbody>
</table>