

i	J_i	$f_i(\vec{\Omega})$
1	$\frac{1}{4}(2 a_+ ^2 + 2 a_- ^2 + b_+ ^2 + b_- ^2)$	$\sin^2 \theta_l$
2	$\frac{1}{2} b_+ ^2 + \frac{1}{2} b_- ^2$	$\cos^2 \theta_l$
4	$\frac{1}{4}\alpha_\Lambda(2 a_+ ^2 - 2 a_- ^2 - b_+ ^2 + b_- ^2)$	$\sin^2 \theta_l \cos \theta_b$
5	$\frac{1}{2}\alpha_\Lambda(b_- ^2 - b_+ ^2)$	$\cos^2 \theta_l \cos \theta_b$
7	$\frac{1}{\sqrt{2}}\alpha_\Lambda \text{Re}(-b_+^* a_+ + b_- a_-^*)$	$\sin \theta_l \cos \theta_l \sin \theta_b \cos(\phi_b + \phi_l)$
9	$\frac{1}{\sqrt{2}}\alpha_\Lambda \text{Im}(b_+^* a_+ - b_- a_-^*)$	$\sin \theta_l \cos \theta_l \sin \theta_b \sin(\phi_b + \phi_l)$
11	$\frac{1}{4}P_b(2 a_+ ^2 - 2 a_- ^2 + b_+ ^2 - b_- ^2)$	$\sin^2 \theta_l \cos \theta$
12	$\frac{1}{2}P_b(b_+ ^2 - b_- ^2)$	$\cos^2 \theta_l \cos \theta$
14	$\frac{1}{4}P_b\alpha_\Lambda(2 a_+ ^2 + 2 a_- ^2 - b_+ ^2 - b_- ^2)$	$\sin^2 \theta_l \cos \theta_b \cos \theta$
15	$-\frac{1}{2}P_b\alpha_\Lambda(b_+ ^2 + b_- ^2)$	$\cos^2 \theta_l \cos \theta_b \cos \theta$
17	$-\frac{1}{\sqrt{2}}P_b\alpha_\Lambda \text{Re}(b_+^* a_+ + b_- a_-^*)$	$\sin \theta_l \cos \theta_l \sin \theta_b \cos(\phi_b + \phi_l) \cos \theta$
19	$\frac{1}{\sqrt{2}}P_b\alpha_\Lambda \text{Im}(b_+^* a_+ + b_- a_-^*)$	$\sin \theta_l \cos \theta_l \sin \theta_b \sin(\phi_b + \phi_l) \cos \theta$
21	$-\frac{1}{\sqrt{2}}P_b \text{Im}(b_+^* a_- - b_- a_+^*)$	$\sin \theta_l \cos \theta_l \sin \phi_l \sin \theta$
23	$\frac{1}{\sqrt{2}}P_b \text{Re}(b_+^* a_- - b_- a_+^*)$	$\sin \theta_l \cos \theta_l \cos \phi_l \sin \theta$
25	$\frac{1}{\sqrt{2}}P_b\alpha_\Lambda \text{Im}(b_+^* a_- + b_- a_+^*)$	$\sin \theta_l \cos \theta_l \cos \theta_b \sin \phi_l \sin \theta$
27	$-\frac{1}{\sqrt{2}}P_b\alpha_\Lambda \text{Re}(b_+^* a_- + b_- a_+^*)$	$\sin \theta_l \cos \theta_l \cos \theta_b \cos \phi_l \sin \theta$
30	$P_b\alpha_\Lambda \text{Im}(a_+ a_-^*)$	$\sin^2 \theta_l \sin \theta_b \sin \phi_b \sin \theta$
32	$-P_b\alpha_\Lambda \text{Re}(a_+ a_-^*)$	$\sin^2 \theta_l \sin \theta_b \cos \phi_b \sin \theta$
33	$-\frac{1}{2}P_b\alpha_\Lambda \text{Re}(b_+^* b_-)$	$\sin^2 \theta_l \sin \theta_b \cos(2\phi_l + \phi_b) \sin \theta$
34	$\frac{1}{2}P_b\alpha_\Lambda \text{Im}(b_+^* b_-)$	$\sin^2 \theta_l \sin \theta_b \sin(2\phi_l + \phi_b) \sin \theta$