9.2 $C_p^{(q)}$

q	0	± 1	± 2
$C_0^{(q)}$	$\sqrt{\dfrac{2}{3}}\left(\cos\Theta_I\cos\Theta_S - \dfrac{1}{2}\sin\Theta_I\sin\Theta_S\right)$	$\pm\dfrac{1}{2}\sin(\Theta_I+\Theta_S)$	$\dfrac{1}{2}\sin\Theta_I\sin\Theta_S$
$C_1^{(q)}$	$\sqrt{\dfrac{2}{3}}\dfrac{1}{4}\left(\sin\Theta_I\sin\Theta_S - \dfrac{1}{2}\cos\Theta_I\cos\Theta_S - \dfrac{1}{2}\right)$	$\mp\dfrac{1}{8}\{\sin(\Theta_I+\Theta_S)\mp\sin\Theta_I\pm\sin\Theta_S\}$	$\dfrac{1}{8}(\cos\Theta_I\cos\Theta_S -1\mp\cos\Theta_I\pm\cos\Theta_S)$
$C_{-1}^{(q)}$	$C_1^{(0)}$	$\mp\dfrac{1}{8}\{\sin(\Theta_I+\Theta_S)\pm\sin\Theta_I\mp\sin\Theta_S\}$	$\dfrac{1}{8}(\cos\Theta_I\cos\Theta_S -1\pm\cos\Theta_I\mp\cos\Theta_S)$
$C_2^{(q)}$	$\sqrt{\dfrac{2}{3}}\dfrac{1}{2}\left(\sin\Theta_I\cos\Theta_S + \dfrac{1}{2}\cos\Theta_I\sin\Theta_S\right)$	$\mp\dfrac{1}{4}\{\cos(\Theta_I+\Theta_S)\pm\cos\Theta_S\}$	$-\dfrac{1}{4}(\cos\Theta_I\sin\Theta_S\pm\sin\Theta_S)$
$C_{-2}^{(q)}$	$C_2^{(0)}$	$\mp\dfrac{1}{4}\{\cos(\Theta_I+\Theta_S)\mp\cos\Theta_S\}$	$-\dfrac{1}{4}(\cos\Theta_I\sin\Theta_S\mp\sin\Theta_S)$
$C_3^{(q)}$	$\sqrt{\dfrac{2}{3}}\dfrac{1}{2}\left(\cos\Theta_I\sin\Theta_S + \dfrac{1}{2}\sin\Theta_I\cos\Theta_S\right)$	$\mp\dfrac{1}{4}\{\cos(\Theta_I+\Theta_S)\pm\cos\Theta_I\}$	$-\dfrac{1}{4}(\sin\Theta_I\cos\Theta_S\pm\sin\Theta_S)$
$C_{-3}^{(q)}$	$C_3^{(0)}$	$\mp\dfrac{1}{4}\{\cos(\Theta_I+\Theta_S)\mp\cos\Theta_I\}$	$-\dfrac{1}{4}(\sin\Theta_I\cos\Theta_S\mp\sin\Theta_S)$
$C_4^{(q)}$	$\sqrt{\dfrac{2}{3}}\dfrac{1}{4}\left(\sin\Theta_I\sin\Theta_S - \dfrac{1}{2}\cos\Theta_I\cos\Theta_S + \dfrac{1}{2}\right)$	$\mp\dfrac{1}{8}\{\sin(\Theta_I+\Theta_S)\pm\sin\Theta_I\pm\sin\Theta_S\}$	$\dfrac{1}{8}(\cos\Theta_I\cos\Theta_S +1\pm\cos\Theta_I\pm\cos\Theta_S)$
$C_{-4}^{(q)}$	$C_4^{(0)}$	$\mp\dfrac{1}{8}\{\sin(\Theta_I+\Theta_S)\mp\sin\Theta_I\mp\sin\Theta_S\}$	$\dfrac{1}{8}(\cos\Theta_I\cos\Theta_S +1\mp\cos\Theta_I\mp\cos\Theta_S)$