

Particle spectrograph

Wave operator and propagator

	$\Delta_{0+}^{\#1}$	$\Delta_{0+}^{\#2}$	$\Delta_{0+}^{\#3}$	$\Delta_{0+}^{\#4}$	$\mathcal{T}_{0+}^{\#1}$	$\mathcal{T}_{0+}^{\#2}$	$\Delta_0^{\#1}$
$\Delta_{0+}^{\#1} \uparrow$	$-\frac{2(a_0+25\,a_1\,k^2)}{a_0^2}$	$\frac{10\,\sqrt{6}\,a_1\,k^2}{a_0^2}$	$-\frac{10\,\sqrt{\frac{2}{3}}\,a_1\,k^2}{a_0^2}$	$-\frac{20\,a_1\,k^2}{\sqrt{3}\,a_0^2}$	$-\frac{50\,i\,\sqrt{2}\,a_1\,k}{a_0^2}$	0	0
$\Delta_{0+}^{\#2} \uparrow$	$\frac{10\,\sqrt{6}\,a_1\,k^2}{a_0^2}$	$-\frac{3(a_0+23\,a_1\,k^2)}{4a_0^2}$	$\frac{5a_0+23\,a_1\,k^2}{4a_0^2}$	$\frac{a_0-23\,a_1\,k^2}{2\,\sqrt{2}\,a_0^2}$	$\frac{20\,i\,\sqrt{3}\,a_1\,k}{a_0^2}$	0	0
$\Delta_{0+}^{\#3} \uparrow$	$-\frac{10\,\sqrt{\frac{2}{3}}\,a_1\,k^2}{a_0^2}$	$\frac{5a_0+23\,a_1\,k^2}{4a_0^2}$	$-\frac{9a_0+23\,a_1\,k^2}{12a_0^2}$	$\frac{3a_0+23\,a_1\,k^2}{6\,\sqrt{2}\,a_0^2}$	$-\frac{20\,i\,a_1\,k}{\sqrt{3}\,a_0^2}$	0	0
$\Delta_{0+}^{\#4} \uparrow$	$-\frac{20\,a_1\,k^2}{\sqrt{3}\,a_0^2}$	$\frac{a_0-23\,a_1\,k^2}{2\,\sqrt{2}\,a_0^2}$	$\frac{3a_0+23\,a_1\,k^2}{6\,\sqrt{2}\,a_0^2}$	$\frac{3a_0-23\,a_1\,k^2}{6a_0^2}$	$-\frac{20\,i\,\sqrt{\frac{2}{3}}\,a_1\,k}{a_0^2}$	0	0
$\mathcal{T}_{0+}^{\#1} \uparrow$	$\frac{50\,i\,\sqrt{2}\,a_1\,k}{a_0^2}$	$-\frac{20\,i\,\sqrt{3}\,a_1\,k}{a_0^2}$	$\frac{20\,i\,a_1\,k}{\sqrt{3}\,a_0^2}$	$\frac{20\,i\,\sqrt{\frac{2}{3}}\,a_1\,k}{a_0^2}$	$\frac{4(a_0-25\,a_1\,k^2)}{a_0^2\,k^2}$	0	0
$\mathcal{T}_{0+}^{\#2} \uparrow$	0	0	0	0	0	0	0
$\Delta_0^{\#1} \uparrow$	0	0	0	0	0	0	$-\frac{2}{a_0a_1k^2}$

	$\Gamma_{0+}^{\#1}$	$\Gamma_{0+}^{\#2}$	$\Gamma_{0+}^{\#3}$	$\Gamma_{0+}^{\#4}$	$h_{0+}^{\#1}$	$h_{0+}^{\#2}$	$\Gamma_0^{\#1}$
$\Gamma_{0+}^{\#1} \uparrow$	$\frac{1}{2}(-a_0+25\,a_1\,k^2)$	0	$10\,\sqrt{\frac{2}{3}}\,a_1\,k^2$	$-\frac{10a_1k^2}{\sqrt{3}}$	$-\frac{25ia_1k^3}{2\sqrt{2}}$	0	0
$\Gamma_{0+}^{\#2} \uparrow$	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{0+}^{\#3} \uparrow$	$10\,\sqrt{\frac{2}{3}}\,a_1\,k^2$	$\frac{a_0}{2}$	$\frac{23a_1k^2}{3}$	$-\frac{3a_0+46a_1k^2}{6\sqrt{2}}$	$-\frac{10ia_1k^3}{\sqrt{3}}$	0	0
$\Gamma_{0+}^{\#4} \uparrow$	$-\frac{10a_1k^2}{\sqrt{3}}$	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{3a_0+46a_1k^2}{6\sqrt{2}}$	$\frac{1}{6}(3a_0+23a_1k^2)$	$5i\sqrt{\frac{2}{3}}a_1k^3$	0	0
$h_{0+}^{\#1} \uparrow$	$\frac{25ia_1k^3}{2\sqrt{2}}$	0	$\frac{10ia_1k^3}{\sqrt{3}}$	$-5i\sqrt{\frac{2}{3}}a_1k^3$	$\frac{1}{4}k^2(a_0+25a_1k^2)$	0	0
$h_{0+}^{\#2} \uparrow$	0	0	0	0	0	0	0
$\Gamma_0^{\#1} \uparrow$	0	0	0	0	0	0	$\frac{1}{2}(-a_0+a_1k^2)$

	$\Delta_{2+}^{\#1}$	$\Delta_{2+}^{\#2}$	$\Delta_{2+}^{\#3}$	$\mathcal{T}_{2+}^{\#1}$	$\Delta_{2+}^{\#1}$	$\Delta_{2+}^{\#2}$
$\Delta_{2+}^{\#1} \uparrow^{a\beta}$	$\frac{4(a_0-11a_1k^2)}{a_0^2}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{44i\sqrt{2}a_1k}{a_0^2}$	0	0
$\Delta_{2+}^{\#2} \uparrow^{a\beta}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{2(3a_0+a_1k^2)}{3a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$-\frac{80ia_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta_{2+}^{\#3} \uparrow^{a\beta}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$\frac{4(3a_0-a_1k^2)}{3a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	0	0
$\mathcal{T}_{2+}^{\#1} \uparrow^{a\beta\chi}$	$\frac{44i\sqrt{2}a_1k}{a_0^2}$	$\frac{80ia_1k}{\sqrt{3}a_0^2}$	$\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	$-\frac{8(a_0+11a_1k^2)}{a_0^2k^2}$	0	0
$\Delta_{2+}^{\#1} \uparrow^{a\beta\chi}$	0	0	0	$\frac{4}{a_0a_1k^2}$	0	0
$\Delta_{2+}^{\#2} \uparrow^{a\beta\chi}$	0	0	0	0	$\frac{4}{a_0\cdot5a_1k^2}$	

	$\Delta_{2+}^{\#1}$	$\Delta_{2+}^{\#2}$	$\Delta_{2+}^{\#3}$	$\mathcal{T}_{2+}^{\#1}$	$\Delta_{2+}^{\#1}$	$\Delta_{2+}^{\#2}$
$\Delta_{2+}^{\#1} \uparrow^{a\beta}$	$\frac{4(a_0-11a_1k^2)}{a_0^2}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{44i\sqrt{2}a_1k}{a_0^2}$	0	0
$\Delta_{2+}^{\#2} \uparrow^{a\beta}$	$-\frac{40\sqrt{\frac{2}{3}}a_1k^2}{a_0^2}$	$-\frac{2(3a_0+a_1k^2)}{3a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$-\frac{80ia_1k}{\sqrt{3}a_0^2}$	0	0
$\Delta_{2+}^{\#3} \uparrow^{a\beta}$	$-\frac{80a_1k^2}{\sqrt{3}a_0^2}$	$-\frac{2\sqrt{2}a_1k^2}{3a_0^2}$	$\frac{4(3a_0-a_1k^2)}{3a_0^2}$	$-\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	0	0
$\mathcal{T}_{2+}^{\#1} \uparrow^{a\beta\chi}$	$\frac{44i\sqrt{2}a_1k}{a_0^2}$	$\frac{80ia_1k}{\sqrt{3}a_0^2}$	$\frac{80i\sqrt{\frac{2}{3}}a_1k}{a_0^2}$	$-\frac{8(a_0+11a_1k^2)}{a_0^2k^2}$	0	0
$\Delta_{2+}^{\#1} \uparrow^{a\beta\chi}$	0	0	0	$\frac{4}{a_0a_1k^2}$	0	0
$\Delta_{2+}^{\#2} \uparrow^{a\beta\chi}$	0	0	0	0	$\frac{4}{a_0\cdot5a_1k^2}$	

	$\Delta_{1+}^{\#1}$	$\Delta_{1+}^{\#2}$	$\Delta_{1+}^{\#3}$	$\Delta_{1+}^{\#4}$	$\Delta_{1+}^{\#5}$	$\Delta_{1+}^{\#6}$	$\mathcal{T}_{1+}^{\#1}$
$\Delta_{1+}^{\#1} \uparrow^{a\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{a\beta}$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0
$\Delta_{1+}^{\#3} \uparrow^{a\beta}$	0	$\frac{40\sqrt{2}a_1k^2}{a_0^2\cdot29a_0+1k^2}$	0	0	0	0	0
$\Delta_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{\alpha}$	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-30a_0a_1k^2+401a_1^2k^4)}{a_0^2(a_0\cdot33a_1k^2)}$	$5\sqrt{\frac{10}{3}}a_1k^2$	$\frac{10a_1k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#3} \uparrow^{\alpha}$	0	0	0	$5\sqrt{\frac{2}{3}}a_1^2k^2$	$\frac{19a_0^2+472a_0a_1k^2+5120a_1^2k^4}{12a_0^2(a_0\cdot33a_1k^2)}$	$\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#4} \uparrow^{\alpha}$	0	0	0	0	$-\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2\cdot33a_0a_1k^2}$	$-\frac{\sqrt{5}(5a_0-164a_1k^2)}{12a_0(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#5} \uparrow^{\alpha}$	0	0	0	0	$\frac{10a_1^2k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0\cdot33a_1k^2)}$	$-\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#6} \uparrow^{\alpha}$	0	0	0	0	$-\frac{50\sqrt{\frac{2}{3}}a_1k^2}{a_0^2\cdot33a_0a_1k^2}$	$-\frac{a_0^2-198a_0a_1k^2}{6a_0^2(a_0\cdot33a_1k^2)}$	0
$\mathcal{T}_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	0	0	0	0

	$\Gamma_{1+}^{\#1}$	$\Gamma_{1+}^{\#2}$	$\Gamma_{1+}^{\#3}$	$\Gamma_{1+}^{\#4}$	$\Gamma_{1+}^{\#5}$	$\Gamma_{1+}^{\#6}$	$h_{1+}^{\#1}$
$\Gamma_{1+}^{\#1} \uparrow^{a\beta}$	$\frac{1}{4}(-a_0-15a_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	0
$\Gamma_{1+}^{\#2} \uparrow^{a\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma_{1+}^{\#3} \uparrow^{a\beta}$	$5a_1k^2$	0	$\frac{1}{4}(a_0-29a_1k^2)$	0	0	0	0
$\Gamma_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	$\frac{1}{4}(-a_0-3a_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$5\sqrt{\frac{3}{2}}a_1k^2$	$-\frac{5a_1k^2}{\sqrt{3}}$
$\Gamma_{1+}^{\#2} \uparrow^{\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{1+}^{\#3} \uparrow^{\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{3}a_1k^2$	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	0
$\Gamma_{1+}^{\#4} \uparrow^{\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{1+}^{\#5} \uparrow^{\alpha}$	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{1+}^{\#6} \uparrow^{\alpha}$	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	$\frac{1}{6}(-a_0+20a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0
$h_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	0	0	0	0

	$\Gamma_{2+}^{\#1}$	$\Gamma_{2+}^{\#2}$	$\Gamma_{2+}^{\#3}$	$\Gamma_{2+}^{\#4}$	$\Gamma_{2+}^{\#5}$	$\Gamma_{2+}^{\#6}$	$h_{2+}^{\#1}$
$\Gamma_{2+}^{\#1} \uparrow^{a\beta}$	$\frac{1}{4}(-a_0-15a_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	$-\frac{11a_1k^3}{4\sqrt{2}}$
$\Gamma_{2+}^{\#2} \uparrow^{a\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	$\frac{5ia_1k^3}{\sqrt{3}}$
$\Gamma_{2+}^{\#3} \uparrow^{a\beta}$	$5a_1k^2$	0	$\frac{1}{4}(a_0-29a_1k^2)$	0	0	0	$-\frac{5ia_1k^3}{\sqrt{6}}$
$\Gamma_{2+}^{\#1} \uparrow^{\alpha}$	0	0	0	$\frac{1}{4}(-a_0-3a_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$-\frac{5}{2}\sqrt{\frac{3}{2}}a_1k^2$	$-\frac{1}{8}k^2(a_0-11a_1k^2)$
$\Gamma_{2+}^{\#2} \uparrow^{\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{2+}^{\#3} \uparrow^{\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{3}a_1k^2$	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	0
$\Gamma_{2+}^{\#4} \uparrow^{\alpha}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{2+}^{\#5} \uparrow^{\alpha}$	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{2+}^{\#6} \uparrow^{\alpha}$	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	$\frac{1}{6}(-a_0+20a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0
$h_{2+}^{\#1} \uparrow^{\alpha}$	0	0	0	0	0	0	0

	$\Gamma_{2+}^{\#1}$	$\Gamma_{2+}^{\#2}$	$\Gamma_{2+}^{\#3}$	$\Gamma_{2+}^{\#4}$	$\Gamma_{2+}^{\#5}$	$\Gamma_{2+}^{\#6}$	$h_{2+}^{\#1}$
$\Gamma_{2+}^{\#1} \uparrow^{a\beta\chi}$	$\frac{1}{4}(-a_0-15a_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	$-\frac{11a_1k^3}{4\sqrt{2}}$
$\Gamma_{2+}^{\#2} \uparrow^{a\beta\chi}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	$\frac{5ia_1k^3}{\sqrt{3}}$
$\Gamma_{2+}^{\#3} \uparrow^{a\beta\chi}$	$5a_1k^2$	0	$\frac{1}{4}(a_0-29a_1k^2)$	0	0	0	$-\frac{5ia_1k^3}{\sqrt{6}}$
$\Gamma_{2+}^{\#1} \uparrow^{\alpha\beta\chi}$	0	0	0	$\frac{1}{4}(-a_0-3a_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$-\frac{5}{2}\sqrt{\frac{3}{2}}a_1k^2$	$-\frac{1}{8}k^2(a_0-11a_1k^2)$
$\Gamma_{2+}^{\#2} \uparrow^{\alpha\beta\chi}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{2+}^{\#3} \uparrow^{\alpha\beta\chi}$	0	0	0	$-\frac{5}{2}\sqrt{3}a_1k^2$	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	0
$\Gamma_{2+}^{\#4} \uparrow^{\alpha\beta\chi}$	0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{2+}^{\#5} \uparrow^{\alpha\beta\chi}$	0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	0
$\Gamma_{2+}^{\#6} \uparrow^{\alpha\beta\chi}$	0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	$\frac{1}{6}(-a_0+20a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0
$h_{2+}^{\#1} \uparrow^{\alpha\beta\chi}$	0	0	0	0	0	0	0

	$\Delta_{1+}^{\#1}$	$\Delta_{1+}^{\#2}$	$\Delta_{1+}^{\#3}$	$\Delta_{1+}^{\#4}$	$\Delta_{1+}^{\#5}$	$\Delta_{1+}^{\#6}$	$\mathcal{T}_{1+}^{\#1}$
$\Delta_{1+}^{\#1} \uparrow^{a\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{a\beta}$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0
$\Delta_{1+}^{\#3} \uparrow^{a\beta}$	0	$\frac{40\sqrt{2}a_1k^2}{a_0^2\cdot29a_0+1k^2}$	0	0	0	0	0
$\Delta_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{\alpha}$	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-30a_0a_1k^2+401a_1^2k^4)}{a_0^2(a_0\cdot33a_1k^2)}$	$5\sqrt{\frac{10}{3}}a_1k^2$	$\frac{10a_1k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#3} \uparrow^{\alpha}$	0	0	0	$5\sqrt{\frac{2}{3}}a_1^2k^2$	$\frac{19a_0^2+472a_0a_1k^2+5120a_1^2k^4}{12a_0^2(a_0\cdot33a_1k^2)}$	$\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#4} \uparrow^{\alpha}$	0	0	0	0	$-\frac{5\sqrt{\frac{10}{3}}a_1k^2}{a_0^2\cdot33a_0a_1k^2}$	$-\frac{\sqrt{5}(5a_0-164a_1k^2)}{12a_0(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#5} \uparrow^{\alpha}$	0	0	0	0	$\frac{10a_1^2k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0\cdot33a_1k^2)}$	$-\frac{a_0^2-118a_0a_1k^2+2560a_1^2k^4}{6\sqrt{2}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#6} \uparrow^{\alpha}$	0	0	0	0	$-\frac{50\sqrt{\frac{2}{3}}a_1k^2}{a_0^2\cdot33a_0a_1k^2}$	$-\frac{a_0^2-198a_0a_1k^2}{6a_0^2(a_0\cdot33a_1k^2)}$	0
$\mathcal{T}_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	0	0	0	0

	$\Delta_{1+}^{\#1}$	$\Delta_{1+}^{\#2}$	$\Delta_{1+}^{\#3}$	$\Delta_{1+}^{\#4}$	$\Delta_{1+}^{\#5}$	$\Delta_{1+}^{\#6}$	$\mathcal{T}_{1+}^{\#1}$
$\Delta_{1+}^{\#1} \uparrow^{a\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{a\beta}$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0
$\Delta_{1+}^{\#3} \uparrow^{a\beta}$	0	$\frac{40\sqrt{2}a_1k^2}{a_0^2\cdot29a_0+1k^2}$	0	0	0	0	0
$\Delta_{1+}^{\#1} \uparrow^{\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0
$\Delta_{1+}^{\#2} \uparrow^{\alpha}$	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2(a_0^2-30a_0a_1k^2+401a_1^2k^4)}{a_0^2(a_0\cdot33a_1k^2)}$	$5\sqrt{\frac{10}{3}}a_1k^2$	$\frac{10a_1k^2(-11a_0+118a_1k^2)}{\sqrt{3}a_0^2(a_0\cdot33a_1k^2)}$	0
$\Delta_{1+}^{\#3} \uparrow^{\alpha}$	0	0	0	$5\sqrt{\frac{2}{3}}a_1^2k^2$	$\frac{19a_0^2+472a_0a_1k^2+5120a_1^2k^4}{12a_0^2(a_0\cdot33a_1k^2)}$	$\frac{a_0^2-118a_0a_1k^2+2560a_1^$	