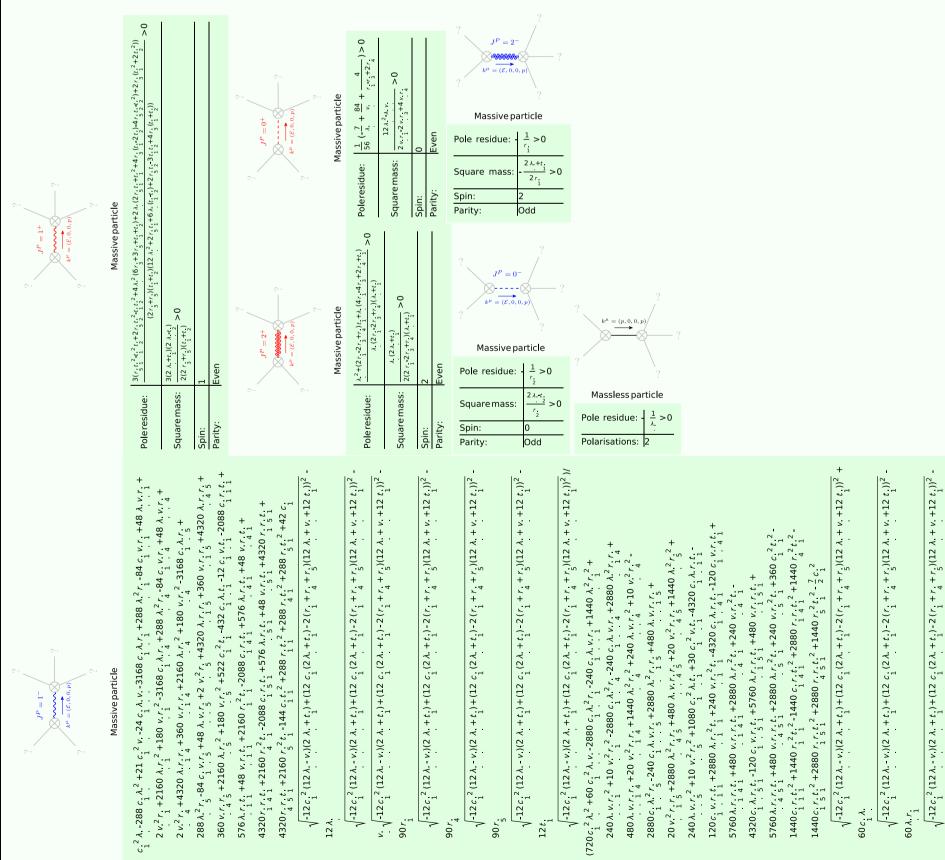
PSALTer results panel

Wave operator and propagator

	$^{1,^{+}}\mathcal{F}^{\parallel}{}_{\alpha\beta}$	$1^+_{\cdot} \mathscr{A}^{\perp}{}_{\alpha\beta}$	$\overset{1^{+}}{\cdot}f^{\parallel}{}_{\alpha\beta}$	$^{1\cdot}_{\cdot}\mathcal{B}_{\alpha}$		Į.	$\mathcal{A}^{\parallel}{}_{lpha}$	1 - $\mathscr{A}^{\perp}{}_{lpha}$	$^{1}f^{\parallel}_{\alpha}$	$! f^{\scriptscriptstyle \perp}{}_{\alpha}$	<u></u>	- σι' αβχ 0	0	$+k^2r_1+\frac{t_1}{2}$		
$^{1^{+}}\mathcal{H}^{\parallel}$ $\dagger^{^{lphaeta}}$	$\frac{1}{6} \left(-6 \lambda. + 6 k^2 \left(2 r. + r. \right) + t. + 4 t. \right)$	$-\frac{6 \lambda + t_1 - 2 t_1}{3 \sqrt{2}}$	$-\frac{i k(6 \lambda + t - 2 t)}{3 \sqrt{2}}$	0			0	0 0		0		O.d.	t.)	+ ~		
$^{1^{+}}\mathcal{H}^{\scriptscriptstyle{\perp}}\dagger^{lphaeta}$	$-\frac{6 \lambda + t_1 - 2 t_2}{3 \sqrt{2}}$	$\frac{t.+t.}{\frac{1}{3}}$	$\frac{1}{3}i k(t_1 + t_2)$	0			0	0 0		0	2+6	1 αβ i κ(2 λ +ε	$k^2 (\lambda + t_1)$			
$^{1+}f^{\parallel}\uparrow^{lphaeta}$	$\frac{i \ k(6 \ \lambda + t_1 - 2 \ t_2)}{3 \ \sqrt{2}}$	$-\frac{1}{3}i k(t_1 + t_2)$	$\frac{1}{3}k^2(t_1+t_2)$	0			0	0 0		0		$\binom{r}{4} + \frac{\frac{t}{1}}{2}$		0		
$^{1}\mathcal{B}\dagger^{lpha}$	0	0	0	$\frac{1}{2}$ (-12 λ . + v . + k^2 (-4 c . +8 (r . +	r. + r.)))	$\frac{1}{6}$ (-12 λ . + ν . + k^2 (-5	$c_1 + 12(r_1 + r_2 + r_3))$	$\frac{2 k^2 c_1 + 12 \lambda - \nu}{6 \sqrt{2}}$	0	$\frac{1}{6}i \ k(2 k^2 c_1 + 12 \lambda - v)$	-	αβ + Γ.	, +t)			
${}^1\mathcal{A}^\parallel {\dagger}^{lpha}$	0	0	0	$\frac{1}{6}$ (-12 λ . + v . + k^2 (-5 c . + 12 (r . +) $\frac{1}{18} (-6\lambda + v6 k^2 (c3 (r. +r. +r.)) + 3 t.)$		0	$\frac{1}{18} i \ k(3 k^2 c_1 + 24 \lambda_1 - v_1 + 6)$	t ₁)	(2 7.	$\frac{i k(2\lambda + t_1)}{\sqrt{2}}$	0		
1 $\mathscr{A}^{\scriptscriptstyle \perp}$ $\dagger^{^{lpha}}$	0	0	0	$\frac{2 k^2 c + 12 \lambda \cdot \nu}{6 \sqrt{2}}$		$\frac{3k^2c. + 24\lambda - v. + 6t.}{18\sqrt{2}}$		$\frac{1}{36} (12 \lambda_1 + v_1 + 12 t_1)$	0	$\frac{i \ k(12 \ \lambda. + v. + 12 \ t.)}{18 \ \sqrt{2}}$		λ . + k^2				
$^{1}f^{\parallel}\uparrow^{\alpha}$	0	0	0	0			0	0 0		0		2+341+ ^{ab}	$2^+f^{\parallel}\uparrow^{\alpha\beta}$	2 A∥ † ^{αβχ}		
$^{1}f^{\perp}\dagger^{\alpha}$	0	0	D	$-\frac{1}{6}i \ k(2 k^2 c_1 + 12 \lambda_1 - v_1)$	-	$\frac{1}{18}i \ k(3 k^2 c_1 +$	24 \(\lambda \) \(\nu \). +6 \(t_1\)	$\frac{7 \times (12 \times + \sqrt{12} \times 1)}{18 \sqrt{2}}$	0	$\frac{1}{18} k^2 (12 \lambda. + v. + 12 t)$		5+	72.	2.9		1
$_{a}f_{\beta}^{\beta}$	α α										\	0	0	0	0	0 1 2 A + k ² r. +
φ+e δ	$\begin{cases} f'(x) + \frac{1}{6}\lambda, \\ f'(x) + \frac{1}{6}\lambda, \\ f'(x) + f'$			1 abx -							1+0	0	0	0	0	0
$_{\beta}^{\beta}+6\mathcal{A}_{\alpha\beta}^{\ \ eta}(\mathcal{B}^{a}{-}\partial^{a}\phi){-}9\partial_{\alpha}\phi\mathcal{F}\phi{+}6\partial_{\alpha}f^{eta}$	$\begin{aligned} & c_{\alpha}{}_{\alpha} - \partial_{\beta} f^{\alpha\beta} \partial_{\gamma} f_{\alpha}{}^{x} + 2 \\ & \times {}_{\gamma} - 12 \partial_{\beta} \mathcal{A}^{\alpha\beta}{}_{\alpha} - 24 q \\ & \beta + 12 f^{\alpha}{}_{\alpha} \partial_{\gamma} \mathcal{A}^{\beta\beta}{}_{\beta} \\ & \epsilon^{\beta} + 12 f^{\alpha}{}_{\alpha} \partial_{\gamma} f^{\alpha\beta} + 12 \mathcal{A}_{\alpha\beta}{}_{\beta} \\ & f^{\alpha\beta}{}_{\alpha} + 2 \mathcal{A}_{\alpha\beta\gamma} \left(\mathcal{A}^{\alpha\beta}{}_{\beta} + 2 \mathcal{A}_{\beta\beta\alpha}{}_{\beta\alpha} \right) \\ & f^{\alpha}{}_{\alpha} \partial_{\gamma} f_{\beta}{}_{\gamma} + 2 \mathcal{A}_{\beta\beta\alpha}{}_{\beta\alpha}{}_{\beta} \\ & 2 \partial^{\gamma} f^{\alpha\beta}{}_{\beta} + \mathcal{A}_{\alpha\gamma\beta}{}_{\beta\beta} + \mathcal{A}_{\alpha\gamma\beta}{}_{\beta\beta} \end{aligned}$	$\partial^{\beta}\mathcal{B}^{a}\partial_{\chi}\mathcal{A}^{\chi}_{\beta\alpha} +$ $^{ab\chi}\partial_{c}\mathcal{A}^{\delta}_{\chi\beta} - 2 \partial^{\chi}\mathcal{A}^{ab}_{\alpha}\partial_{c}\mathcal{A}^{\delta}_{\chi\beta}) + \partial_{b}\partial^{\chi}f^{ab}\partial_{\chi}\mathcal{A}^{a}_{\alpha\delta} -$	$\partial^{\chi} \mathcal{G}^{a\beta}_{\alpha}$ - a b a b b b c b c b c	+2 3×9 ab a 6×9 c -3×9 ab e + 0×9 ab + x a t	2+ μ αβ	$2^{+}\sigma^{\dagger}_{a\beta}$ $k^{2}(\lambda + t_{1})$ $^{1}(2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot \frac{1}{2}k^{2}\lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot \frac{1}{2}k^{2}\lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + t_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{3} + r_{4})(\lambda + r_{1}) \cdot k \lambda \cdot (2r_{1} - 2r_{1} + r_{2}) \cdot (2r_{1} - 2r_{1} + r_{2}) \cdot (2r_{1} - 2r_{1} + r_{2} + r_{2}) \cdot (2r_{1} - 2r_{1} + r_{2} + r_{2} + r_{2} + r_{2}) \cdot (2r_{1} - 2r_{1} + r_{2} + r_{2$	λ.+k² (2 r ₁ -2	$ \begin{array}{ccc} \frac{\lambda_{1}+t_{1}}{\lambda_{1}+t_{1}} & 0 \\ \frac{2r_{3}+r_{4}}{3} & \frac{t_{1}}{2} \\ \frac{2r_{3}+r_{4}}{2} & \frac{t_{1}}{2} \\ \frac{r_{1}-\frac{1}{2}}{2} & \frac{k^{2}\lambda_{1}(2\lambda_{1}+t_{1})}{2} \end{array} $			F+0	$i \sqrt{3}(12 \lambda. v.)$ $28k(-12\lambda^2 + \lambda. v + 2k^2 v. (r. r. + 2r.))$	$\sqrt{3}(.12 \lambda + v + 24k)$ $32k^2(.12\lambda^2 + \lambda v + 2k)$	$\frac{i}{56 \sqrt{2} \left(\frac{k\lambda}{2} + \frac{k^3 v_0 t_0}{2} + \frac{11}{-11}\right)}$	$\frac{-12\lambda + v + 24k^2 (r_1 \tau_1 + 2r_4)}{32k^2 (-12\lambda^2 + \lambda \cdot v + 2k^2 \cdot v \cdot (r_1 \tau_1 + 2r_4))}$	0 0
-9 $_{\mathcal{B}_{_{lpha}}}$ $_{\mathcal{B}^{a}}$ +18 $_{\mathcal{B}^{a}}$ $_{\partial_{a}}\phi$ -6 $_{\mathcal{B}^{a}}$ $_{\partial_{a}}f^{eta}$	$a^{ab} + 2 \mathcal{A}_{b \times X}^{X} \partial^{b} f_{a}^{a} - \partial_{b} f_{x}^{X} \partial^{b} f_{a}^{x} - \partial_{b} f_{x}^{X} \partial^{b} g_{a}^{y}$ $3^{a} - 72 \phi \partial_{b} g^{a} + 12 f^{ab} \partial_{b} \mathcal{A}$ $2 \partial_{b} f_{x}^{X} \partial^{b} f_{a}^{a} - 12 f^{ab} \partial_{x} \mathcal{A}_{a}^{y}$ $x^{0} f^{ab} + 3 \partial_{y} f_{ab}^{0} \partial^{y} f^{ab} + 3$ $y^{1} \partial^{y} f^{ab} + 4 \mathcal{A}_{ay} \beta (\mathcal{A}^{abx} + b)$ $f^{f_{x}} \partial^{b} f_{a}^{a} - \partial_{b} f^{ab} \partial_{y} f_{a}^{x} + 2 \partial_{y} g_{a}^{y} \partial^{y} f_{a}^{x} + 2 \partial_{y} g_{a}^{y} \partial^{y} f_{a}^{y} \partial^{y} f_{$	$\frac{\delta}{\beta_{\beta}} \mathcal{B}_{\alpha} \partial^{\beta} \mathcal{B}^{\alpha} + 4$ $\frac{\delta}{\beta_{\lambda}} + 2 \partial^{\lambda} \mathcal{A}^{\alpha\beta}$ $6 \partial_{\beta} \mathcal{B}_{\alpha} \partial^{\beta} \mathcal{B}^{\alpha} + 4$	$\sum_{\alpha} + \partial_{\beta} \mathcal{A}_{\chi}^{\ \ \delta} \partial^{\gamma} \mathcal{A}^{\alpha\beta}_{\ \ \alpha} - \partial_{\chi} \mathcal{A}_{\beta}^{\ \ \delta}$ $A_{\beta}^{\ \ \delta} + \partial^{\gamma} \partial_{\beta} f^{\alpha\beta} \partial_{\delta} \mathcal{A}_{\chi}^{\ \ \delta} - \partial^{\gamma} \mathcal{A}^{\beta}_{\ \ \delta}$ $\cdot \partial_{\beta} \mathcal{A}_{\gamma}^{\ \ \delta} + \partial^{\beta} \partial_{\beta} \mathcal{A}_{\chi}^{\ \ \delta} - \partial^{\gamma} \mathcal{A}^{\gamma}_{\chi}$	$y_{\chi}g^{ab}_{a} - \partial_{\alpha}g^{ab\chi} \partial_{\beta}g^{b}_{b}$ $_{5}^{2} \partial_{\beta}g_{a\chi} + 2 \partial_{\beta}g_{\chi} \delta_{\delta}$ $R_{\mu}^{\chi} + \partial_{\beta}g_{\chi} \delta_{\alpha}\partial^{\beta}g^{ab\chi}$ $\partial^{\beta}g^{a} + 6 \partial_{\beta}g_{\alpha}\partial^{\beta}g^{a} +$ $\partial_{\beta}g^{a} + 6 \partial_{\beta}g_{\alpha}\partial^{\beta}g^{a} +$ $\partial_{\beta}g^{a} + 6 \partial_{\beta}g_{\alpha}\partial^{\beta}g^{a} +$ $(b, \chi, y, z] d z d y d$	_	$0^{+}\mathcal{B}$ $\lambda + \frac{v}{2} + 12 k^{2} (r_{1} - r_{3} + 2r_{4})$ $k (-6 i \lambda + \frac{i u}{2})$ $\frac{12 \lambda - v_{2} - 24 k^{2} (r_{1} r_{3} + 2r_{4})}{2 \sqrt{6}}$ $i k (12 \lambda - v_{2})$	$0^{+}\phi$ $2 r_{4}) \frac{1}{2} \tilde{i} \ k(12 \lambda_{-} v_{-})$ $\frac{k^{2} v_{-}}{2}$ $-\frac{i \ k(12 \lambda_{-} v_{-})}{2 \sqrt{6}} -\lambda$ $k^{2} v_{-}$	$ \begin{array}{c} \lambda + k^{2} r_{1} + \\ 0^{+} \mathcal{A} \parallel \\ \frac{12 \lambda - \nu \cdot 24 k^{2} (r_{1} r_{3} + 2 r_{4})}{2 \sqrt{6}} \\ \frac{i \ k(12 \lambda - \nu)}{2 \sqrt{6}} \\ \lambda + \frac{\nu}{12} + 2 \ k^{2} (r_{1} - r_{3} + 2 r_{4}) \\ \frac{i \ k(12 \lambda - \nu)}{6 \sqrt{2}} \end{array} $		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	**0	$\sqrt{6} v$ $\sqrt{9(-12 \lambda^2 + \lambda \cdot v + 2 k^2 v (r - r + 2 r_1))}$	i (36 λ 3 1 1 2 + 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ν 9(-12 λ ² +λ ν+2 κ ² ν. ($= \frac{i}{56 \sqrt{2} \left(\frac{i}{2} + \frac{i^3 v_1 (r_{-2} + 2r_1)}{-12 \lambda_1 + r_1} \right)}$	0 0
$_{ab}^{}+\mathcal{G}^{a}\mathcal{B}_{a}^{}-rac{1}{18}\mathbf{v}.(\mathcal{A}^{ab}_{$	$B^{a} \partial_{\beta} f_{\alpha}^{a} = 6 \partial^{a} \phi \partial_{\beta} f_{\alpha}^{a} = $ $+24 \mathcal{A}_{\alpha\beta}^{\beta} B^{a} = 36 \mathcal{B}_{\alpha}$ $\cdot_{\alpha} +24 f_{\alpha}^{a} \partial_{\beta} B^{\beta} + 4 \mathcal{G}_{\alpha\beta}$ $\partial_{\alpha} f_{\beta\chi} \partial^{\chi} f^{\alpha\beta} = 3 \partial_{\alpha} f_{\chi} \partial^{\chi} f^{\beta}$ $\partial_{\alpha} f_{\beta\chi} = \partial_{\alpha} f_{\chi} \partial_{\beta} f_{\alpha\gamma} + 6 \mathcal{G}_{\alpha\chi} \partial_{\beta} f_{\alpha\gamma} + 2 \mathcal{G}_{\alpha\chi}^{\beta}$ $-2 \mathcal{G}_{\alpha\chi}^{\alpha\chi} \partial_{\beta} f^{\alpha\beta} + 2 \mathcal{G}_{\beta}^{\beta}$ $= 6 \partial_{\beta} f_{\alpha\chi} \partial_{\gamma} f^{\alpha\beta} + 2 \mathcal{G}_{\beta}^{\beta}$ $= 6 \partial_{\beta} f_{\alpha\chi} \partial_{\gamma} f^{\alpha\beta} + 2 \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f_{\alpha\chi} \partial_{\beta} f^{\alpha\beta} + 2 \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f_{\alpha\chi} \partial_{\beta} f^{\alpha\beta} + 2 \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f_{\alpha\chi} \partial_{\beta} f^{\alpha\beta} + 2 \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f_{\alpha\chi} \partial_{\beta} f^{\alpha\beta} + 2 \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f^{\beta} f^{\alpha} \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f^{\beta} f^{\beta} \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta}$ $= 6 \partial_{\gamma} f^{\beta} \partial_{\gamma} f^{\beta}$	-4 ∂ _a B _β ∂ ³ B°-4 ∂ _β B° ^x ∂ ³ ^{14°} a - ∂ _x G _β ° ∂ ³ G ^{4°} a - ∂ _a G 5°-6 ∂ _a B _β ∂ ⁸ a - 5 ∂ _β G ^x _x	$_{\chi}\mathcal{A}_{g}^{\chi}$ +2 $\partial^{\beta}\mathcal{B}^{a}\partial_{\chi}\partial_{a}f_{\chi}$ -2 $\partial^{\beta}\mathcal{B}^{a}$, $_{\chi}\partial_{\beta}f^{a\beta}$ -3 $\partial^{\beta}\mathcal{B}^{a}$, $_{\chi}\partial_{\beta}f^{a\beta}$ -3 $\partial^{\alpha}\mathcal{B}^{a}$, $_{\chi}\partial_{\beta}f^{a\beta}$ -3 $\partial^{\alpha}\mathcal{B}^{a}$, $_{\chi}\partial^{\beta}\mathcal{B}^{a}$, $_{\chi}\partial^{\beta}$	$(^{\beta\chi}_{\mu}) - \partial_{\mu}\mathcal{A}_{\chi}^{\delta}_{\delta} \partial^{\lambda}\mathcal{A}_{\gamma}^{\beta}_{\delta}$ $(\mathcal{A}^{a_{\beta}}_{\alpha} \partial_{\delta}\mathcal{A}_{\chi}^{\delta}_{\beta}) + \frac{1}{3}$ $(^{\beta}\mathcal{B}^{a} + 2 \partial_{\alpha}\mathcal{B}_{\beta} \partial^{\beta}\mathcal{B}_{\gamma}^{\alpha}_{\delta})$ $(^{\beta}\mathcal{B}^{a} + 6 \partial_{\alpha}\mathcal{B}_{\beta} \partial^{\beta}\mathcal{B}_{\gamma}^{\alpha}_{\delta})$ $(^{\beta}\mathcal{B}^{a} \partial_{\gamma}\mathcal{A}_{\beta}^{\gamma}_{\alpha} - 2 \partial_{\beta}\mathcal{A}_{\gamma}^{\alpha}_{\delta})$ $(^{\alpha\beta\chi}_{\alpha} \partial^{\beta}\mathcal{A}^{a\beta\chi}_{\delta} + \partial_{\delta}\mathcal{A}_{\gamma}^{\alpha}_{\delta})$	$\begin{array}{c} Spin-paria \\ O^+ r^+ = 0 \\ O^+ \rho + O^+ r \\ \hline 2 O^+ \sigma^+ + O^+ r \end{array}$	== 0	$ \begin{array}{c c} \hline 2\sqrt{3} \\ 0 \\ 0 \end{array} $ ont form $ \partial_{\beta}\partial_{\alpha}\tau^{\alpha\beta} = 0 $ $ \partial_{\alpha}\partial^{\alpha}\rho + \partial_{\beta}\partial^{\beta}\tau^{\alpha}_{\ \alpha} = \partial_{\beta}\partial_{\alpha}\tau^{\alpha\beta} $ $ \partial_{\alpha}\mathcal{J}^{\alpha} = 2\partial_{\beta}\sigma^{\alpha\beta}_{\ \alpha} $	0 (0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		36 i λ+3 i κ -36 i λ+3 i κ -28 κ (-12 λ ² +λ · · +2 κ ² ν (r ₋ -r ₊ +2 r ₋))	$3(-12 \lambda + v + 24 k^2 (r - r + 2 r - 1))$ $32 k^2 (-12 \lambda^2 + v + 2 k^2 v \cdot (r - r + 2 r - 1))$	$i \sqrt{\frac{3}{2}} (12\lambda)$ $2 + \lambda v + 2k^2$	$\sqrt{3}(-12 \lambda + \nu + 24 k^2 (r_{1-3} + 2r_{4}))$ $32 k^2 (12 \lambda^2 - \nu, (\lambda + 2 k^2 (r_{1-3} + 2 r_{4})))$	0
$== \iiint (\phi \ \rho + \alpha^{\alpha\beta} \ \mathcal{B}_{\alpha\beta\chi} + \tau^{\alpha\beta})$	(8 Ω^a (9 Ω^a (14, Ω^b (14, Ω^a (15, Ω^a	$r_{5} (4\partial_{a} \mathcal{A}_{\beta X}^{\ X} \partial^{b} \mathcal{B}^{a}.4)$ $\partial_{b} \mathcal{A}_{\chi}^{\ \delta} \partial^{c} \mathcal{A}^{a \beta}$ $\frac{1}{2} c_{5} (5\partial_{a} \mathcal{A}_{\beta X}^{\ \delta} \partial^{c} \mathcal{B}^{a}$	$3\partial^{\beta}B^{\alpha}(s)$ $\partial_{\alpha}A_{\chi}^{\delta}(s)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{2 i k^{1} \sigma^{\parallel^{\alpha}}}{1 \tau^{\parallel^{\alpha}} == 0}$ $\frac{1 \tau^{\parallel^{\alpha}} == 0}{2 1 \sigma^{\parallel^{\alpha}} == 0}$	$i + i \tau^{\alpha} - i k i \mathcal{J}^{\alpha} == 0 \delta$ $2 i \sigma^{\alpha} + i \mathcal{J}^{\alpha}$	$\frac{\partial_{\chi} \partial^{\chi} \partial_{\beta} \tau^{\alpha\beta} + \partial_{\chi} \partial^{\chi} \partial_{\beta} \partial^{\alpha} \mathcal{J}^{\beta}}{\partial_{\chi} \partial_{\beta} \partial^{\alpha} \tau^{\beta\chi} + \partial_{\chi} \partial^{\chi} \partial_{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}$ $\frac{\partial_{\chi} \partial_{\beta} \partial^{\alpha} \tau^{\beta\chi} + \partial_{\chi} \partial^{\chi} \partial_{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\chi} \partial_{\beta} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\chi} \partial_{\beta} \tau^{\beta\alpha}}{\partial_{\gamma} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \mathcal{J}^{\alpha} + 2(\partial_{\gamma} \partial^{\alpha} \mathcal{J}^{\beta})}{\partial_{\gamma} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \mathcal{J}^{\alpha} + 2(\partial_{\gamma} \partial^{\alpha} \mathcal{J}^{\beta})}{\partial_{\gamma} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\gamma} \partial^{\beta} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\gamma} \partial^{\beta} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \partial^{\alpha} \mathcal{J}^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\gamma} \partial^{\beta} \partial^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \mathcal{J}^{\alpha}}{\partial_{\gamma} \partial^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \partial^{\alpha} \mathcal{J}^{\beta}}{\partial_{\gamma} \partial^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta} \partial^{\alpha} \mathcal{J}^{\beta}}{\partial_{\gamma} \partial^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta} \partial^{\beta}}{\partial_{\gamma} \partial^{\beta}} = \frac{\partial_{\gamma} \partial^{\beta}}{\partial_{\gamma}} = \frac{\partial_{\gamma} \partial^{\beta}}{\partial_$	$\mathcal{J}^{\alpha} + 2 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\alpha} \sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\alpha} \sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\chi} \sigma^{\beta}_{\beta} \right)$ $\mathcal{J}^{\alpha} + 2 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\chi} \sigma^{\beta}_{\beta} \right)$ $\mathcal{J}^{\alpha} + 2 \left(\partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\beta}_{\beta}^{\chi} + \partial_{\chi} \partial^{\chi} \sigma^{\beta}_{\beta} \right)$		3		6 v. 49(-12 \lambda ^2 + \lambda v + 2 k^2 v. (r. r. + 2 r.))	31(12 A. +A. v. +2 k	$\frac{1 \ 3 \ 4}{\sqrt{6} \ v}$ $\frac{\sqrt{6} \ v}{588 \ \lambda^2 \ 49 \ v \ (\lambda + 2 \ k^2 \ (r_1 - r_1 + 2 \ r_1))}$	$\frac{1}{28\ell k \lambda} \frac{1}{\sqrt{3}} \frac{1}{4} \frac{8\ell \ell \lambda^{2} + 2\ell \lambda^{2}}{\sqrt{3}(12\lambda + \epsilon)}$	0

Total expected gauge generators

Massive and massless spectra



$\sqrt{\frac{4}{12}c_{1}^{2}(12\lambda_{1}-v_{1})(2\lambda_{1}+t_{1}^{2})+(12c_{1}^{2}(2\lambda_{1}+t_{1}^{2})-2(r_{1}+r_{1}+r_{2}^{2})(12\lambda_{1}+v_{1}+12t_{1}^{2}))^{2}}}{60r_{1}t_{1}^{2}}-\frac{60r_{1}t_{1}^{2}}{\sqrt{-12c_{1}^{2}(12\lambda_{1}-v_{1})(2\lambda_{1}+t_{1}^{2})+(12c_{1}^{2}(2\lambda_{1}+t_{1}^{2})-2(r_{1}+r_{1}+r_{2}^{2})(12\lambda_{1}+v_{1}+12t_{1}^{2}))^{2}}}>$	Square mass: $ \frac{12c_1(2\lambda + t_1) \cdot 2(r_1 + r_4 + r_5)(12\lambda + v + 12t_1) + \sqrt{-12c_1^2(12\lambda - v)(2\lambda + t_1) + (12c_1(2\lambda + t_1) \cdot 2(r_1 + r_4 + r_5)(12\lambda + v + 12t_1))^2}}{2c_1^2} > 0 $ Spin: $ 1 $	Parity: Odd
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 $\sqrt{-12\,c_1^{\,\,2}\,(12\,\lambda_{\,-}\,\nu_{\,})(2\,\lambda_{\,+}\,t_{\,\,1}^{\,\,}) + (12\,c_1^{\,\,}(2\,\lambda_{\,+}\,t_{\,\,1}^{\,\,}) - 2\,(r_{\,\,1}^{\,\,} + r_{\,\,4}^{\,\,} + r_{\,\,5}^{\,\,})(12\,\lambda_{\,+}\,\nu_{\,+} + 12\,t_{\,\,1}^{\,\,}))^2}$

 $\sqrt{-12c_1^2\left(12\lambda-\nu\right)(2\lambda+t_1^2)+(12c_1^2(2\lambda+t_1^2)-2(r_1^2+r_2^2+r_3^2)(12\lambda+\nu+12t_1^2)^2}$

 $\frac{-12\,c_1^2\,(12\,\lambda\,\cdot\,\nu\,)(2\,\,\lambda\,+\,t_1^{\,\,})+(12\,\,c_1^{\,\,}(2\,\lambda\,+\,t_1^{\,\,})-2\,(r_1^{\,\,}+r_1^{\,\,}+r_1^{\,\,}+\,r_2^{\,\,})(12\,\,\lambda\,+\,\nu\,+12\,\,t_1^{\,\,}))^2}{r_1^{\,\,}}$

 $\sqrt{-12\,c_1^{\,\,2}(12\,\lambda-\nu)(2\,\lambda+t_1^{\,\,2})+(12\,c_1^{\,\,2}(2\,\lambda+t_1^{\,\,2})-2\,(r_1^{\,\,}+r_1^{\,\,}+r_2^{\,\,3})(12\,\lambda+\nu+12\,t_1^{\,\,2}))^2}$

 $\sqrt{-12c_1^2\left(12\lambda-\nu\right)(2\lambda+t_1^2)+(12c_1^2(2\lambda+t_1^2)-2(r_1+r_2+r_3)(12\lambda+\nu+12t_1^2)^2}$

 $\sqrt{-12\,c_1^{\,\,2}(12\,\lambda_1-\nu_1)(2\,\lambda_1+t_1^{\,\,2})+(12\,c_1^{\,\,2}(2\,\lambda_1+t_1^{\,\,2})-2\,(r_1^{\,\,2}+r_1^{\,\,2})(12\,\lambda_1+\nu_1+12\,t_1^{\,\,2}))^2}$

Unitarity conditions