

PSALTer results panel

$$S := \iiint \left(\frac{1}{4} (-2a_0 \mathcal{A}_{\alpha\beta} \mathcal{A}^{\alpha\beta\chi} + 2a_0 \mathcal{A}_\alpha{}^\beta \mathcal{A}^\chi{}_{\beta\chi} + 4 \mathcal{A}^{\alpha\beta\chi} \mathcal{W}_{\alpha\beta\chi} + 4 \mathcal{T}^{\alpha\beta} h_{\alpha\beta} + 2a_0 h^{\alpha\beta} \partial_\beta \mathcal{A}_\alpha{}^\chi{}_\chi - \right. \\ \left. 2a_0 h^{\alpha\beta} \partial_\chi \mathcal{A}_\alpha{}^\chi{}_\beta - a_0 h^\alpha{}_\alpha \partial_\chi \mathcal{A}^\beta{}_\beta{}^\chi + a_0 h^\alpha{}_\alpha \partial_\chi \mathcal{A}^{\beta\chi}{}_\beta - h_1 \partial_\beta \mathcal{A}_\chi{}^\delta{}_\delta \mathcal{A}^{\alpha\beta}{}_\alpha - h_1 \partial_\chi \mathcal{A}_\beta{}^\delta{}_\delta \mathcal{A}^{\alpha\beta}{}_\alpha - 2 h_1 \partial_\beta \mathcal{A}^{\alpha\beta\chi} \partial_\delta \mathcal{A}_\alpha{}^\delta{}_\chi + 4 h_1 \partial_\chi \mathcal{A}_\alpha{}^\beta{}_\beta \partial_\delta \mathcal{A}_\beta{}^\delta{}_\chi \right) [t, x, y, z] dz dy dx dt$$

Wave operator

	$\overset{0}{\cdot} h^+$	$\overset{0}{\cdot} h^\parallel$	$\overset{0}{\cdot} \mathcal{A}_s{}^{+t}$	$\overset{0}{\cdot} \mathcal{A}_s{}^\parallel$	$\overset{0}{\cdot} \mathcal{A}_s{}^{+h}$						
$\overset{0}{\cdot} h^+ \dagger$	0	0	0	$\frac{i a_\perp k_0}{4}$	$\frac{i a_\perp k_0}{8 \sqrt{2}}$						
$\overset{0}{\cdot} h^\parallel \dagger$	0	0	0	$-\frac{i a_\perp k_0}{4 \sqrt{3}}$	$\frac{5 i a_\perp k_0}{8 \sqrt{6}}$						
$\overset{0}{\cdot} \mathcal{A}_s{}^{+t} \dagger$	0	0	0	$\frac{a_\perp}{2}$	$\frac{a_\perp}{4 \sqrt{2}}$						
$\overset{0}{\cdot} \mathcal{A}_s{}^\parallel \dagger$	$-\frac{1}{4} i a_\perp k_0$	$\frac{i a_\perp k_0}{4 \sqrt{3}}$	$\frac{a_\perp}{2}$	$-\frac{2 k^2 h_\perp}{3}$	$\frac{3 a_\perp + 2 k^2 h_\perp}{12 \sqrt{2}}$						
$\overset{0}{\cdot} \mathcal{A}_s{}^{+h} \dagger$	$-\frac{i a_\perp k_0}{8 \sqrt{2}}$	$-\frac{5 i a_\perp k_0}{8 \sqrt{6}}$	$\frac{a_\perp}{4 \sqrt{2}}$	$\frac{3 a_\perp + 2 k^2 h_\perp}{12 \sqrt{2}}$	$\frac{1}{12} (-3 a_\perp - 7 k^2 h_\perp)$	$\overset{1}{\cdot} \mathcal{A}_s{}^\perp_{\alpha\beta}$	$\overset{1}{\cdot} h^+_a$	$\overset{1}{\cdot} \mathcal{A}_s{}^{+t}_a$	$\overset{1}{\cdot} \mathcal{A}_s{}^\parallel t_a$	$\overset{1}{\cdot} \mathcal{A}_s{}^{+h}_a$	$\overset{1}{\cdot} \mathcal{A}_s{}^\parallel h_a$
$\overset{1}{\cdot} \mathcal{A}_s{}^\perp \dagger^{\alpha\beta}$	$\frac{a_\perp}{4}$	0	0	0	0						
$\overset{1}{\cdot} h^+ \dagger^\alpha$	0	0	$-\frac{i a_\perp k_0}{4 \sqrt{6}}$	$\frac{1}{4} i \sqrt{\frac{5}{6}} a_\perp k_0$	$\frac{i a_\perp k_0}{8 \sqrt{3}}$	$-\frac{i a_\perp k_0}{4 \sqrt{6}}$					
$\overset{1}{\cdot} \mathcal{A}_s{}^{+t} \dagger^\alpha$	0	$\frac{i a_\perp k_0}{4 \sqrt{6}}$	$\frac{1}{12} (-4 a_\perp - k^2 h_\perp)$	$\frac{1}{12} \sqrt{5} (2 a_\perp + k^2 h_\perp)$	$\frac{a_\perp + k^2 h_\perp}{12 \sqrt{2}}$	$\frac{1}{12} (a_\perp - k^2 h_\perp)$					
$\overset{1}{\cdot} \mathcal{A}_s{}^\parallel t \dagger^\alpha$	0	$-\frac{1}{4} i \sqrt{\frac{5}{6}} a_\perp k_0$	$\frac{1}{12} \sqrt{5} (2 a_\perp + k^2 h_\perp)$	$\frac{1}{12} (4 a_\perp - 5 k^2 h_\perp)$	$\frac{1}{12} \sqrt{\frac{5}{2}} (a_\perp - k^2 h_\perp)$	$\frac{1}{12} \sqrt{5} (a_\perp + k^2 h_\perp)$					
$\overset{1}{\cdot} \mathcal{A}_s{}^{+h} \dagger^\alpha$	0	$-\frac{i a_\perp k_0}{8 \sqrt{3}}$	$\frac{a_\perp + k^2 h_\perp}{12 \sqrt{2}}$	$\frac{1}{12} \sqrt{\frac{5}{2}} (a_\perp - k^2 h_\perp)$	$\frac{1}{24} (2 a_\perp - k^2 h_\perp)$	$\frac{-4 a_\perp + k^2 h_\perp}{12 \sqrt{2}}$					
$\overset{1}{\cdot} \mathcal{A}_s{}^\parallel h \dagger^\alpha$	0	$\frac{i a_\perp k_0}{4 \sqrt{6}}$	$\frac{1}{12} (a_\perp - k^2 h_\perp)$	$\frac{1}{12} \sqrt{5} (a_\perp + k^2 h_\perp)$	$\frac{-4 a_\perp + k^2 h_\perp}{12 \sqrt{2}}$	$\frac{1}{12} (-a_\perp - k^2 h_\perp)$	$\overset{2}{\cdot} h^\parallel_{\alpha\beta}$	$\overset{2}{\cdot} \mathcal{A}_s{}^\parallel_{\alpha\beta}$	$\overset{2}{\cdot} \mathcal{A}_s{}^\perp_{\alpha\beta}$	$\overset{2}{\cdot} \mathcal{A}_s{}^\parallel_{\alpha\beta X}$	
$\overset{2}{\cdot} h^\parallel \dagger^{\alpha\beta}$	0	$-\frac{i a_\perp k_0}{4 \sqrt{3}}$	$-\frac{i a_\perp k_0}{2 \sqrt{6}}$	0							
$\overset{2}{\cdot} \mathcal{A}_s{}^\parallel \dagger^{\alpha\beta}$	$\frac{i a_\perp k_0}{4 \sqrt{3}}$	$\frac{1}{6} (-3 a_\perp - k^2 h_\perp)$	$-\frac{k^2 h_\perp}{3 \sqrt{2}}$	0							
$\overset{2}{\cdot} \mathcal{A}_s{}^\perp \dagger^{\alpha\beta}$	$\frac{i a_\perp k_0}{2 \sqrt{6}}$	$-\frac{k^2 h_\perp}{3 \sqrt{2}}$	$\frac{a_\perp}{4} - \frac{k^2 h_\perp}{3}$	0							
$\overset{2}{\cdot} \mathcal{A}_s{}^\parallel \dagger^{\alpha\beta X}$	0	0	0	$\frac{a_\perp}{4}$	$\overset{3}{\cdot} \mathcal{A}_s{}^\parallel_{\alpha\beta X}$						
	$\overset{3}{\cdot} \mathcal{A}_s{}^\parallel \dagger^{\alpha\beta X}$					$\frac{a_\perp}{-2}$					

Saturated propagator

[illegible]

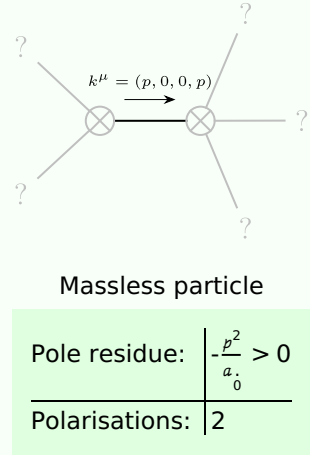
Source constraints

Spin-parity form	Covariant form	Multiplicities
$k \, 0^+ \, \mathcal{W}_S^{\perp t} + 2 \, i \, 0^+ \mathcal{T}^{\perp} = 0$	$2 \, \partial_\beta \partial_\alpha \mathcal{T}^{\alpha\beta} = \partial_\chi \partial_\beta \partial_\alpha \mathcal{W}^{\alpha\beta\chi}$	1
$2 \, k \, 1^- \mathcal{W}_S^{\perp h\alpha} + k \, 1^- \mathcal{W}_S^{\perp t\alpha} + 6 \, i \, 1^- \mathcal{T}^{\perp\alpha} = 0$	$2 \, \partial_\chi \partial_\beta \partial^\alpha \mathcal{T}^{\beta\chi} + \partial_\sigma \partial^\sigma \partial_\chi \partial_\beta \mathcal{W}^{\beta\alpha\chi} = 2 \, \partial_\chi \partial^\chi \partial_\beta \mathcal{T}^{\alpha\beta} + \partial_\sigma \partial_\chi \partial_\beta \partial^\alpha \mathcal{W}^{\beta\chi\sigma}$	3
Total expected gauge generators:		4

Massive spectrum

(No particles

Massless spectrum



Unitarity conditions

$$a_0 < 0$$