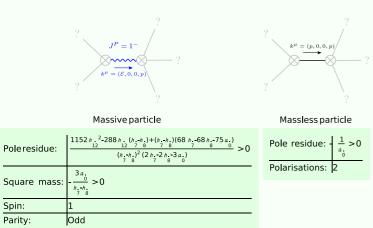
PSALTer results panel

Wave operator and propagator

$^{1}\mathcal{A}_{S}^{lh}$	0	i k a - 4 √6	$\frac{1}{12} (k^2 (h_1 - 2 h_1) + a_1)$	$\frac{1}{2}\sqrt{5}(-k^2(h_1-2h_1)+a_1)$	$\frac{k^2 (h - 2h) + 4a}{12 \sqrt{2}}$	$\frac{1}{12} (k^2 (4 h_1, -2 h_1) - a_1)$		ityform $+2 i^{0^+} \mathcal{T}^{\perp} == 0$ $+ k ! \mathcal{W}_s^{\perp t \alpha} + 6$	2 i 1. τ ==		$= \partial_{\chi} \partial_{\beta} \partial_{\alpha} \mathcal{W}$ $+ \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial_{\alpha} \partial_{\alpha}$				Mult 1 3	iplicities				
$1{\mathcal A_{S}}^{\perp h}$	0	i k a 0 8 √3	$\frac{2k^2(h_1 + h_2) + a_3}{12\sqrt{2}}$	$\frac{1}{12} \sqrt{\frac{5}{2}} \left(-2k^2 (h_1 + h_3) + a_4 \right) \frac{1}{12}$	$\frac{1}{12} (-k^2 (h_1 + h_1) + a_1)$	$\frac{k^2 (h_1 - 2h_1) + 4a_0}{12 \sqrt{2}}$	$^{0^+}\mathcal{T}^{\perp}$ † $^{0^+}\mathcal{T}^{\parallel}$ †	pected gauge gene $0^{+}\mathcal{T}^{\perp}$ $\frac{4 k^{2} (6 k^{2} (2 h_{12} + h_{7} + h_{8}) - 3 (4 + k^{2})^{2} a_{0}^{-2}}{3 (4 + k^{2})^{2} a_{0}^{-2}}$ $- \frac{16 k^{2} h_{12}}{\sqrt{3} (4 + k^{2}) a_{0}^{-2}}$ $- \frac{8 i k (6 k^{2} (2 h_{1} + h_{7} + h_{8}) - 3 (4 + k^{2})^{2} a_{0}^{-2}}{3 (4 + k^{2})^{2} a_{0}^{-2}}$	$\frac{4(2 k^2)}{\sqrt{100}}$	$\begin{array}{c} 0^{+}\mathcal{T}^{\parallel} \\ 16k^{2}h_{\frac{1}{12}} \\ \overline{3}(4+k^{2})a_{\frac{1}{0}}^{2} \\ -2h_{\frac{1}{12}}h_{\frac{1}{7}}h_{\frac{1}{8}}^{+}h_{\frac{1}{8}}^{+})a_{\frac{1}{0}} \\ k^{2}a_{\frac{1}{0}}^{2} \\ 32ik\frac{h_{\frac{1}{12}}}{\overline{3}(4+k^{2})a_{\frac{1}{0}}^{2}} \end{array}$	$\frac{8i \ k(6 \ k^2)}{3(4-4)} = \frac{3}{\sqrt{3}(4-4)}$ $= \frac{3}{\sqrt{3}(4-4)}$ $= \frac{3}{\sqrt{3}(4-4)}$ $= \frac{3}{\sqrt{3}(4-4)}$ $= \frac{3}{\sqrt{3}(4-4)}$	$W_5^{\pm t}$ $\frac{h_1 + h_1 + h_3 - a_0}{h_2 + h_2 - a_0^2}$ $\frac{h_2 + h_3 + h_3 - a_0}{h_2 + h_2 - a_0^2}$ $\frac{2i \ k \ h_2}{a_0^2}$ $\frac{12}{h_1 + h_2 - a_0^2}$ $\frac{h_1 + h_3 - a_0}{h_2 + h_2^2}$ $\frac{h_2 + h_3 - a_0}{a_0^2}$	$0^{+}W_{S}^{\parallel}$ $\frac{10 i k}{3(4+k^{2}) a_{0}}$ $-\frac{2 i}{\sqrt{3} k a_{0}}$ $\frac{20}{3(4+k^{2}) a_{0}}$	$0.^{+}W_{5}^{\perp h}$ $\frac{4i\sqrt{2}k}{3(4+k^{2})a_{0}}$ $\frac{4i\sqrt{\frac{2}{3}}}{ka_{0}}$ $\frac{8\sqrt{2}}{3(4+k^{2})a_{0}}$	$2^{+}h^{\parallel} + \alpha^{\beta}$ $2^{+}\mathcal{A}_{s}^{\parallel} + \alpha^{\beta}$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	$ \begin{array}{c} 2^{+}\mathcal{A}_{S^{\perp}\alpha\beta} \\ -\frac{i k a 0}{2 \sqrt{6}} \\ \frac{k^{2} (h_{12} + 2(h_{1} + h_{1}))}{6 \sqrt{2}} \end{array} $	$ \begin{vmatrix} 2 \cdot \mathcal{A}_{5} \ _{\alpha\beta\chi} \\ 0 \\ 0 \end{vmatrix} $
$^{1}\mathcal{A}_{\varsigma}^{\parallel t}$	0	$\frac{1}{4}i\sqrt{\frac{5}{6}}ka.$	$\frac{1}{6}\sqrt{5}(k^2(h_1+h_3)+a_1)$	$\frac{1}{6} (-5 k^2 (h_1 + h_1) + 2 a_1)$	$\frac{1}{12}\sqrt{\frac{5}{2}}\left(-2k^2(h_1+h_3)+a_1\right)$	$\frac{1}{12}\sqrt{5}(-k^2(h_1-2h_1)+a_0)$	0.+Ws1+ 0.+Ws1h+	$ \frac{10 i k}{12 a_0 + 3 k^2 a_0} $ $ - 4 i \sqrt{2} k $ $ 12 a_0 + 3 k^2 a_0 $	1 4	$ \frac{2i}{\sqrt{3} k a_0} $ $ \frac{4i \sqrt{\frac{2}{3}}}{k a_0} $	12 a 	$ \begin{array}{c} 20 \\ _{0} + 3 k^{2} a_{0} \\ 3 \sqrt{2} \\ _{0} + 3 k^{2} a_{0} \end{array} $	0 0	0 0	$2^{+}\mathcal{A}_{s}^{\perp} + ^{\alpha\beta}$ $2^{+}\mathcal{A}_{s}^{\parallel} + ^{\alpha\beta\chi}$ $2^{+}\mathcal{T}^{\parallel} + ^{\alpha\beta}$	$\frac{8(-k^4 h_{}^2 - \frac{1}{12})}{8(-k^4 h_{}^2 - \frac{1}{12})}$	$\frac{k^{2}(h, +2(h, +h_{0}))}{6\sqrt{2}}$ 0 $2^{+}\mathcal{T}\ _{\alpha\beta}$ $+k^{2}(-2h, +h, +h_{0})a_{0}a_{0}^{-2})$ $k^{2}a_{0}^{-3}$ $4t(2k^{2}h, +a_{0})$ $\sqrt{3}ka_{0}^{2}$	$\frac{1}{3} k^{2}$ $2^{+}W_{5}^{\parallel} _{a\beta}$ $\frac{4i(2k^{2}n_{12} + a_{0})}{\sqrt{3}k a_{0}^{2}}$ $\frac{-8}{3a}$	k a. 2 0	
$1^{-}\mathcal{A}_{S}{}^{\perpt}{}_{\alpha}$	0	i k a 4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\frac{1}{6} \left(-k^2 \left(h_1 + h_1 \right) - 2 a_1 \right)$	$\sqrt{5} (k^2 (h_1 + h_1) + a_1)$	$ \begin{array}{c c} 2 k^2 (h_1 + h_1) + a_1 \\ \hline 12 \sqrt{2} \end{array} $	$\frac{1}{12} (k^2 (h_1 - 2 h_1) + a_1)$	$== \iiint \left(\frac{1}{4} \left(-2 a_{0} \mathcal{B}_{\alpha_{X} \beta} \mathcal{B}^{\alpha \beta_{X}} + 2 a_{0} \mathcal{B}^{\alpha_{\beta}} \mathcal{B}^{X} \mathcal{A}_{\beta_{X}} + 4 \mathcal{B}^{\alpha \beta_{X}} \mathcal{W}_{\alpha \beta_{X}} \right) \right)$	$4 \mathcal{T}^{\alpha\beta} h_{\alpha\beta} + 2 a_0 h^{\alpha\beta} \partial_{\beta} \mathcal{A}_{\alpha}^{x} - 2 a_0 h^{\alpha} \partial_{\beta} \mathcal{A}_{\alpha}^{x} - 2 a_0 h^{\alpha} \partial_{\beta} \mathcal{A}_{\beta}^{x} + 3 a_0 h^{\alpha} \partial_{\beta} \mathcal{A}_{\beta}^{x} + 3 a_0 h^{\alpha} \partial_{\beta} \mathcal{A}_{\beta}^{x} \partial_{\beta} \mathcal{A}_{\beta}^{x} \partial_{\beta} \mathcal{A}_{\beta}^{x} \partial_{\beta} \mathcal{A}_{\alpha}^{x} \partial_{\beta} \mathcal{A}_{\alpha}^{$	8 3 4 8 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	$2h, \delta_{\rho}\mathcal{A}^{a,\gamma}, \delta_{\rho}\mathcal{A}^{a,\gamma} + 2h, \delta^{\gamma}\mathcal{A}^{a,\gamma}, \delta^{\delta}\mathcal{A}^{a,\gamma}$ $8, \delta_{\rho}\mathcal{A}^{a,\gamma}, \delta^{\gamma}\mathcal{A}^{a,\gamma} + 2h, \delta^{\gamma}\mathcal{A}^{a,\gamma}$ $4h, \delta_{\alpha}\mathcal{A}^{a,\beta}, \delta_{\delta}\mathcal{A}^{\delta}, 4+h, \delta^{\gamma}\mathcal{A}^{a,\beta}$ $\delta_{\delta}\mathcal{A}^{\delta}, 4+h, \delta^{\gamma}\mathcal{A}^{a,\beta}, \delta^{\delta}\mathcal{A}^{\delta}, 4+h.$	$\int_{\alpha}^{\beta} \partial_{\delta} \mathcal{A}_{\beta,\chi}^{\delta} + 2h_{\cdot} \partial^{\chi} \mathcal{A}_{\alpha}^{\alpha\beta} \partial_{\delta} \mathcal{A}_{\chi\beta}^{\delta}))[$	$\frac{3^{7}\mathcal{W}_{\varsigma}\ _{\varphi_{\delta\chi}}}{3^{7}\mathcal{W}_{\varsigma}\ _{\varphi_{\delta\chi}}}$	3.3 3.3 4 alix		$2^{+}W_{s}^{\parallel} \uparrow^{\alpha\beta}$ $2^{+}W_{s}^{\perp} \uparrow^{\alpha\beta}$ $2^{+}W_{s}^{\perp} \uparrow^{\alpha\beta\chi}$ 0	41	$ \frac{\sqrt{\frac{2}{3}} (k^2 h_{11} + 2 a_{1})}{k a_{0}^{2}} $ $ 0 $ $ 0 $	$\frac{4\sqrt{2}}{3a_0}$ $a_5^{\perp h}$	$ \frac{4\sqrt{2}}{3a_0} $ $ -\frac{4}{3a_0} $ $ 0 $	0 0 $\frac{4}{a_0}$
$_{eta}$ $_{\mu^{\perp}}$	0	0	i k a 0 4 √6	$-\frac{1}{4}\bar{i}\sqrt{\frac{5}{6}}ka_0\frac{1}{6}$	i k a 0 8 √3		, A _{αχ β} A ^{αβχ} +2 ο	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2h \cdot \partial_x \mathcal{A}^{\delta}_{\kappa}$ $2h \cdot \partial_x \mathcal{A}^{\delta}_{\kappa}$	$2h$, $\partial_{eta} \mathcal{A}^{\prime}$, $\partial_{lpha} \mathcal{A}^{\prime}$, $\partial_{lpha} \mathcal{A}^{\prime}$, $\partial_{lpha} \mathcal{A}^{\prime}$, $\partial_{\delta} \mathcal{A}^{\delta}$, $\partial_{\delta} \mathcal{A}^{\delta}$, $\partial_{\delta} \mathcal{A}^{\delta}$,	$\partial^{\chi}\mathcal{A}^{lphaeta}_{lpha}\partial_{\delta}\mathcal{A}^{\ \delta}_{eta\chi} + t,x,y,z] dz dy d\chi dt$	$0^{+}h^{\perp} + $ $0^{+}h^{\parallel} + $ $0^{+}\mathcal{A}_{S}^{\perp t} + $	0 0	0 0	$-\frac{i k a}{4}$ $-\frac{i k a}{4 \sqrt{3}}$ $-\frac{a}{2}$		i k 8 n 5 i . 8 n 4 n 4 n	k a 0 0 √6		
$\overset{1^{+}}{\mathcal{A}_{S}}\overset{_{\perp}}{\varphi_{\beta}}$	$\frac{1}{3} \mathcal{A}_{S}^{\perp} + \alpha^{\beta} \frac{a}{4}$	$\frac{1}{h} + \frac{1}{a} = 0$	$\frac{1}{2}\mathcal{A}_{s}^{\perp t} +^{\alpha} = 0$	$^{1}\mathcal{A}_{\mathrm{s}}^{\parallel}t^{\alpha}=0$	$1 \mathcal{A}_{s^{\perp}h} t^{\alpha} = 0$	$\frac{1}{2}\mathcal{A}_{\rm s}^{\rm lh} +^{\alpha}$ 0	$S == \begin{cases} S == \\ \iiint (\frac{1}{4} (-2 a) \right) \end{cases}$	111111111111111111111111111111111111111				-	$ \frac{1}{4} \tilde{l} k a \frac{i}{4} $ $ i k a 0 5i $	$ \frac{a_0}{\sqrt{3}} = \frac{a_0}{2} $ $ \frac{k_0}{\sqrt{6}} = \frac{a_0}{4\sqrt{2}} $	$-\frac{2}{3}k^2(2h)$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{2 k^2 (-4 h_1 + h_2)}{12}$	$\frac{h.+h.)+3a.}{\sqrt{2}}$	a.)	

Massive and massless spectra



Unitarity conditions

$$(h. \mid h.) \in \mathbb{R} \&\& a. < 0 \&\& h. < h.$$