PSALTer results panel

Wave operator and propagator

	$\cdot \mathcal{F}_{s}^{-} a eta \chi$																		
	$0^{+}h^{\perp} \ 0^{+}h^{\parallel}$	${}^{0^+}_{\cdot}\mathcal{F}_{a}{}^{\parallel}$	${}^{0^+}\mathcal{A}_{s}{}^{\perpt}$		$^{0^{+}}\mathcal{A}_{s}{}^{\parallel}$	⁰⁺ ∕A _s ^{⊥h}	${}^{0}\mathcal{A}_{a}{}^{\parallel}$	$^{3}\mathcal{A}_{s}^{\parallel}$ † $^{\alpha\beta\chi}$	$-\frac{3}{4}(a. + 2)$	2 a6 a.)									
0.+ h_+ +	0 0	þ	0		0	0	0		Ū	3 /				-		-			
⁰⁺ <i>h</i> ∥ †	0 4. k2	0	0		0	0	0	1	$^{2,h}h^{\parallel}_{\alpha\beta}$	${}^{2^+}\mathcal{R}_{a}{}^{\parallel}{}_{lphaeta}$	$^{2^{+}}\mathcal{A}_{s}^{\parallel}_{\alpha\beta}$	²⁺ <i>Я</i> s [±] αβ		7.3	$\mathcal{A}_{a}^{\parallel}_{\alpha\beta\chi}$	²⁻ $\mathcal{A}_{s}^{\parallel}_{\alpha\beta\chi}$			
	0 0	h	0		0	0	0	$^{2^+}h^{\parallel} + ^{\alpha\beta}$	$\frac{a \cdot k^2}{0}$	0	d	0			0	0			
^{0,⁺} Æ _a "†	0 0	ν I	-				U	$\mathcal{A}_{a^{\parallel}}^{2^{+}}\mathcal{A}_{a^{\parallel}}^{\alpha\beta}$	0	$\frac{1}{4}(a2 \ aa.)$	0	$-\frac{1}{4}\sqrt{3}(2 a_1 + a_2 + a_3)$	+ a)	0		0			
⁰⁺ ℋ _s ^{⊥t} †	0 0	0	$\frac{1}{4} \left(-3 a_{0} - 2 \left(a_{1} + 4 a_{0} - 7 a_{1} \right) \right)$	a2 aa. 5 6 7		$\frac{-3 a. + 2(a8 a. +5 a.)}{\frac{5}{6} \frac{6}{7}}$	0	$\mathcal{A}_{a}^{"}$	4 (0 1 2			1 2	9	0		0	10.		
0+ ~ .	0 0		a2 a a. 1	1/20 2/0 1/1 7		2 12(0 15)			0	0	$-\frac{3}{4}(a_0 + 2 a_5 - 6 a_1)$	0			0	0	αβχ 16a.		
^{0,+} ℋ _s "†	0 0	b	5 6 7 4	(-342	2(a. +4 a7 a.	$\frac{1}{7} \frac{1}{4\sqrt{2}}$	0	$^{2^{+}}\mathcal{R}_{s}^{\perp}$ $^{\alpha\beta}$	0 -	$\frac{1}{4}\sqrt{3}(2 a_1 + a_2 + a_3)$	0	$-\frac{3}{4}(2a_1 + a_2 - 2a_3 - 6a_4)$	ı. +2 a.)		0	0	3.W. 4 4 8(a, +2a)		
⁰⁺ ℋ _s ^{⊥h} †	0 0	0	$\frac{-3a.+2(a8a.+5a.)}{5}$	-3 a .+	+2(a8a.+5a.)	$\frac{1}{4} \left(-3 a. + 2 \left(a8 a. +5 a. \right) \right)$	0	2. σ. μ. αβχ		1 2 9			7 9		2 a a	$-\frac{1}{4}\sqrt{3}(2 a_1 + a_2 + a_3 + a_4)$			
			4 √2		4 √2	0 5 6 7	a.	${}^{2}\mathcal{A}_{a}{}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	0	0		0	-2 a a	2 7 1 2	9 #		
⁰ -ℋ _а "†	0 0	o	0		0	0	$-\frac{0}{2}$ -2 a_1 +2 a_2	$\mathcal{A}_{s}^{2}\mathcal{A}_{s}^{\parallel} + \alpha \beta \chi$	0	0	0	0		$-\frac{1}{4}\sqrt{3}(2)$	$a_1 + a_2$	$+a_{.9}$ $\left -\frac{3}{4} \left(2a_{.1} + a_{.2} - 2a_{.5} - 6a_{.7} \right) \right $	+2 a _.) = °		
	$^{2^{+}}\mathcal{T}^{\parallel}_{\alpha}$	0	$^{2^{+}}\mathcal{W}_{a}{}^{\parallel}{}_{lphaeta}$		$^{2^{+}}W_{s}^{\parallel}_{\alpha\beta}$	²⁺ W _s [±] αβ			$^{2}W_{a}^{\parallel}_{\alpha\beta}$	h.	2 ⁻ W	',		$^{0^+}\mathcal{T}^{\perp}$ $^{0^+}\mathcal{I}$	1 0+Wall	0+W _s _tt	0+W _s	${}^{0^+}\mathcal{W}_{s}{}^{\perph}$	$^{0}W_{a}^{\parallel}$
2+ " 0	0	 								·x			$^{0^+}\!\mathcal{T}^{\scriptscriptstyle \perp}$ †		b	0	0	0	0
²⁺𝒯 †°	$-\frac{8}{a \cdot k^2}$		0		0	0			0		1	0	⁰⁺ ℱ [∥] †	4	- 0	0	0	0	
$^{2^{+}}W_{a}^{\parallel}\dagger^{\alpha}$	β	4(2 a.+a2a6a.+2a.)				4(2 a.+a.+a.) 1 2 9		0		0			0	2 0	0	0	0	0	
. Pra I		2(2	$2a.+a.)(a.+3a.)+a.^{2}+a.(2a.+a2a6a$	a.+2a.)		$\sqrt{3}(2(2 \ a.+a.)(a.+3a.)+a.^2+a.(2a.+a2a)$	26a.+2a.)) 5 7 9				,		⁰⁺ W _a †	0 0	þ	0	0	0	0
2+Ws + a	ο 0		0		$-\frac{4}{3(a.+2a6a.)}$	0			0			0	⁰⁺ Ws ^{⊥t} †	0 0	þ	$\begin{bmatrix} -\frac{2}{3(a.+2a6a.)} & -\frac{1}{6a4(a8a.+5a.)} \\ 0 & 5 & 6 & 7 \end{bmatrix}$	$\frac{2}{3(a.+2a6a.)} - \frac{1}{6a4(a8a.+5a.)}$	$-\frac{1}{\sqrt{2}(3 \ a2(a8 a. +5 a.))}$	0
			4(2 a.+a.+a.)		0 5 7	4(a2aa.)							۵+ "			2 _ 1	2 1	0 5 6 7	
$^{2^{+}}W_{s}^{\perp} + ^{\alpha}$	0	- √3(2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-6a.+2a.))	0 -	$\frac{0 - 1 - 2}{3(2(2 a + a \cdot)(a + 3 a \cdot) + a \cdot^2 + a \cdot (2 a \cdot + a \cdot - 2 a \cdot a$	-6a.+2a.))		0			0	0,*W _s †	0 0	0	3(a.+2a6a.) 6a4(a8a.+5a.) 0 5 7 0 5 6 7	3(a.+2a6a.) $6a4(a8a.+5a.)$ 0 0 0 0 0 0 0 0 0 0	$\sqrt{2}(3 \ a2(a8a.+5a.))$	0
_			1 2 5 7 9 0 1 2 5	7 9		1 2 5 7 9 0 1 2 5	7 9	4(2 a	+a2a6	a.+2a.)	4(2 a.	.+a.+a.)	⁰⁺ Ws ^{⊥h} †	0 0	þ	$-\frac{1}{\sqrt{2}(3 \ a2(a8 \ a. +5 \ a.))}$	$-\frac{1}{\sqrt{2}(3\ a2(a8a.+5a.))}_{0\ 5\ 6\ 7}$	$\frac{1}{{\overset{3a.+2(a8a.+5a.)}{{}_{5}}}_{0}}$	0
${}^{2}\mathcal{W}_{a}{}^{\parallel} + {}^{\alpha\beta}$	0		0		0	0	2	$\frac{4(2 a. + a 2 a 6 a. + 2 a.)}{2(2 a. + a.)(a. + 3a.) + a.^2 + a.^2 (2 a. + a 2a 6a. + 2a.)}{2(2 a. + a.)(a. + 3a.) + a.^2 + a.^2 (2 a. + a 2a 6a. + 2a.)}$		$-\frac{4(2 a_1+a_2+a_3)}{\sqrt{3}(2(2 a_1+a_2)(a_1+3 a_1)+a_2^2+a_3(2 a_1+a_2-2 a_2-6 a_2+2 a_3))}}{\sqrt{3}(2(2 a_1+a_2)(a_1+3 a_1)+a_2^2+a_3(2 a_1+a_2-2 a_2-6 a_2+2 a_3))}}$		-			0 5 6 7	0 5 6 7	0 5 6 7	2	
								4(2 a.+a.+a.) 1 2 9		4(a2aa.)		⁰ . W _a †	0 0	þ	0	0	0	$\frac{-a.+4a4a.}{0.12}$	
$^{2}W_{s}^{\parallel}\dagger^{\alpha\beta}$	0		0		0	0	- √3			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{pmatrix} 1 & 2 \\ 2 & +a & (2a & +a & -2a & -6a & +2a &)) \\ 0 & 1 & 2 & 5 & 7 & 9 \end{pmatrix}$					Sg		
								1 2 5	, 9 (0 1 2 3 7 9	1 2 5 / 9	, , , , , , , , , , , , , , , , , , , ,	l				icitie		
S ==	[[[[(-1	(4(-2	$a_1 + 2 a_2 + a_3 - 12 a_4 + 2 a_5$	$\mu \mathcal{A}^{\alpha\beta}$	$-3(a_1 + 8a_1 -$	$-2 a \cdot -18 a \cdot +4 a \cdot$											tipli		

 $\partial_{\beta}\partial^{\alpha}\mathcal{W}^{\beta\chi}_{\chi} + 2\left(\partial_{\chi}\partial^{\chi}\mathcal{W}^{\beta\alpha}_{\beta} + \partial_{\chi}\partial^{\chi}\mathcal{W}^{\beta\alpha}_{\beta}\right) ==$

 $2(\ ^{1}\mathcal{W}_{s}\|^{h^{\alpha}}+^{1}\mathcal{W}_{s}^{\perp h^{\alpha}})=1\mathcal{W}_{s}\|^{t^{\alpha}}+^{1}\mathcal{W}_{s}^{\perp t^{\alpha}}$

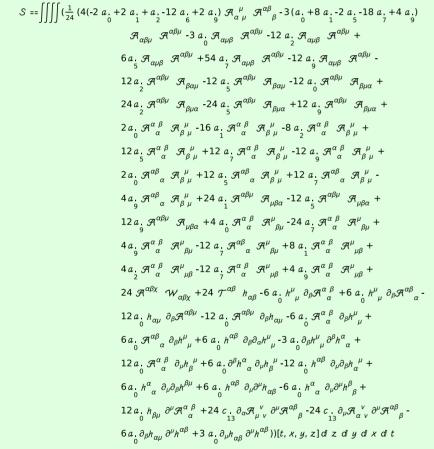
 ${}^{1}\mathcal{W}_{a}{}^{\parallel}{}^{\alpha} := {}^{1}\mathcal{W}_{a}{}^{\perp}{}^{\alpha}$

 $2 \partial_{x} \partial^{\alpha} W^{\beta}_{\beta}^{x} + 2 \partial_{x} \partial^{\alpha} W^{\beta x}_{\beta}$

 $\partial_{\alpha}\mathcal{W}^{\alpha\beta}_{\ \beta} == 2(\partial_{\beta}\mathcal{W}^{\alpha}_{\ \alpha}^{\ \beta} + \partial_{\beta}\mathcal{W}^{\alpha\beta}_{\ \alpha})$

 $0^{+}W_{a}^{\parallel}=0$

 $\partial_{\beta}W^{\alpha}{}^{\beta} == gW^{\alpha\beta}$



Massive and massless spectra

Parity:	Spin:	Square mass:	Poleresidue:	Massi	?	Polarisations:	Pole residue:	Massless particle	$R^{\mu} = (p, 0, 0, p)$
Odd	1	$\frac{3a.+2(a8a.+5a.)}{\overset{0}{\overset{5}{}}} > 0$ $\frac{8c.}{^{13}}$	$\frac{1}{4c.} > 0$	Massive particle	$e = 1 - \frac{2}{2}$	2	$\frac{1}{a} > 0$	rticle	2 2

Unitarity conditions

$$(a. \mid a.) \in \mathbb{R} \&\& a. < 0 \&\& a. > \frac{1}{10} (3a. - 2a. + 16a.) \&\& c. > 0$$