

PSALTer results panel

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$$\iiint\left(\frac{1}{6}\left(-4t_{\frac{2}{3}}\mathcal{A}^{\alpha'}_{\alpha}\mathcal{A}_{,\theta}^{\theta}+6\mathcal{A}^{\alpha\beta\chi}\sigma_{\alpha\beta\chi}+6f^{\alpha\beta}\tau(\Delta+\mathcal{K})_{\alpha\beta}+8t_{\frac{2}{3}}\mathcal{A}_{\alpha}^{\theta}\partial_{\mathcal{I}}f^{\alpha'}-3r_{\frac{2}{3}}\partial_{\beta}\mathcal{A}_{,\theta}^{\theta}\partial'\mathcal{A}^{\alpha\beta}_{\alpha}-3r_{\frac{2}{3}}\partial_{\mathcal{I}}\mathcal{A}_{\beta}^{\theta}\partial'\mathcal{A}^{\alpha\beta}_{\alpha}-8t_{\frac{2}{3}}\mathcal{A}_{,\theta}^{\theta}\partial'f^{\alpha}_{\alpha}+4t_{\frac{2}{3}}\partial_{\mathcal{I}}f^{\theta}_{\theta}\right.\right.\\ \left.\partial'f^{\alpha}_{\alpha}-3r_{\frac{2}{3}}\partial_{\alpha}\mathcal{A}^{\alpha\beta'}\partial_{\theta}\mathcal{A}_{\beta}^{\theta}+6r_{\frac{2}{3}}\partial'\mathcal{A}^{\alpha\beta}_{\alpha}\partial_{\theta}\mathcal{A}_{\beta}^{\theta}-3r_{\frac{2}{3}}\partial_{\alpha}\mathcal{A}^{\alpha\beta'}\partial_{\theta}\mathcal{A}_{,\beta}^{\theta}+6r_{\frac{2}{3}}\partial'\mathcal{A}^{\alpha\beta}_{\alpha}\partial_{\theta}\mathcal{A}_{,\beta}^{\theta}+4t_{\frac{2}{3}}\partial_{\mathcal{I}}f^{\alpha'}\partial_{\theta}f^{\theta}_{\alpha}-\right.\\ \left.8t_{\frac{2}{3}}\partial'f^{\alpha}_{\alpha}\partial_{\theta}f^{\theta}_{,\theta}+8r_{\frac{2}{2}}\partial_{\beta}\mathcal{A}_{\alpha,\theta}\partial^{\theta}\mathcal{A}^{\alpha\beta'}-4r_{\frac{2}{2}}\partial_{\beta}\mathcal{A}_{\alpha\theta,\mathcal{I}}\partial^{\theta}\mathcal{A}^{\alpha\beta'}+4r_{\frac{2}{2}}\partial_{\beta}\mathcal{A}_{,\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta'}-24r_{\frac{2}{3}}\partial_{\beta}\mathcal{A}_{,\theta\alpha}\partial^{\theta}\mathcal{A}^{\alpha\beta'}-\right.\\ \left.2r_{\frac{2}{2}}\partial_{\mathcal{I}}\mathcal{A}_{\alpha\beta\theta}\partial^{\theta}\mathcal{A}^{\alpha\beta'}+2r_{\frac{2}{2}}\partial_{\theta}\mathcal{A}_{\alpha\beta,\mathcal{I}}\partial^{\theta}\mathcal{A}^{\alpha\beta'}-4r_{\frac{2}{2}}\partial_{\theta}\mathcal{A}_{\alpha,\beta}\partial^{\theta}\mathcal{A}^{\alpha\beta'}+6r_{\frac{5}{5}}\partial_{\mathcal{I}}\mathcal{A}_{\theta}^{\kappa}\partial^{\theta}\mathcal{A}^{\alpha'}_{\alpha}-6r_{\frac{5}{5}}\partial_{\theta}\mathcal{A}_{,\kappa}\partial^{\theta}\mathcal{A}^{\alpha'}_{\alpha}-\right.\\ \left.6r_{\frac{5}{5}}\partial_{\alpha}\mathcal{A}^{\alpha'\theta}\partial_{\kappa}\mathcal{A}_{,\theta}^{\kappa}+12r_{\frac{5}{5}}\partial^{\theta}\mathcal{A}^{\alpha'}_{\alpha}\partial_{\kappa}\mathcal{A}_{,\theta}^{\kappa}+6r_{\frac{5}{5}}\partial_{\alpha}\mathcal{A}^{\alpha'\theta}\partial_{\kappa}\mathcal{A}_{\theta}^{\kappa}-12r_{\frac{5}{5}}\partial^{\theta}\mathcal{A}^{\alpha'}_{\alpha}\partial_{\kappa}\mathcal{A}_{\theta}^{\kappa}\right)\Big|t,x,y,z\Big]dzdydxdt$$

Wave operator

$\overset{0}{\cdot}\overset{+}{\mathcal{A}}^{\parallel}$	$\overset{0}{\cdot}\overset{+}{f}^{\parallel}$	$\overset{0}{\cdot}\overset{+}{f}^{\perp}$	$\overset{0}{\cdot}\overset{-}{\mathcal{A}}^{\parallel}$									
$\overset{0}{\cdot}\overset{+}{\mathcal{A}}^{\parallel}\dagger$	$t_{\cdot 3}$	$-i\sqrt{2}kt_{\cdot 3}$	0	0								
$\overset{0}{\cdot}\overset{+}{f}^{\parallel}\dagger$	$i\sqrt{2}kt_{\cdot 3}$	$2k^2t_{\cdot 3}$	0	0								
$\overset{0}{\cdot}\overset{+}{f}^{\perp}\dagger$	0	0	0	0								
$\overset{0}{\cdot}\overset{-}{\mathcal{A}}^{\parallel}\dagger$	0	0	0	$k^2r_{\cdot 2}$	$\overset{1}{\cdot}\overset{+}{\mathcal{A}}^{\parallel}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{+}{\mathcal{A}}^{\perp}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{+}{f}^{\parallel}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{-}{\mathcal{A}}^{\parallel}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{\mathcal{A}}^{\perp}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{f}^{\parallel}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{f}^{\perp}_{\alpha}$	
$\overset{1}{\cdot}\overset{+}{\mathcal{A}}^{\parallel}\dagger^{\alpha\beta}$	$k^2\left(2r_{\cdot 3}+r_{\cdot 5}\right)$			0	0	0	0	0	0	0	0	
$\overset{1}{\cdot}\overset{+}{\mathcal{A}}^{\perp}\dagger^{\alpha\beta}$	0			0	0	0	0	0	0	0	0	
$\overset{1}{\cdot}\overset{+}{f}^{\parallel}\dagger^{\alpha\beta}$	0			0	0	0	0	0	0	0	0	
$\overset{1}{\cdot}\overset{-}{\mathcal{A}}^{\parallel}\dagger^{\alpha}$	0	0	0	$k^2\left(\frac{r_{\cdot 3}}{2}+r_{\cdot 5}\right)+\frac{2t_{\cdot 3}}{3}$								
$\overset{1}{\cdot}\overset{-}{\mathcal{A}}^{\perp}\dagger^{\alpha}$	0	0	0	$-\frac{\sqrt{2}t_{\cdot 3}}{3}$								
$\overset{1}{\cdot}\overset{-}{f}^{\parallel}\dagger^{\alpha}$	0	0	0	$\frac{t_{\cdot 3}}{3}$								
$\overset{1}{\cdot}\overset{-}{f}^{\perp}\dagger^{\alpha}$	0	0	0	$\frac{1}{3}i\sqrt{2}kt_{\cdot 3}$								
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Saturated propagator

$\overset{0}{\cdot}\overset{+}{\sigma}^{\parallel}$	$\overset{0}{\cdot}\overset{+}{\tau}^{\parallel}$	$\overset{0}{\cdot}\overset{+}{\tau}^{\perp}$	$\overset{0}{\cdot}\overset{-}{\sigma}^{\parallel}$								
$\overset{0}{\cdot}\overset{+}{\sigma}^{\parallel}\dagger$	$\frac{1}{(1+2\,k^2)^2t_{\frac{2}{3}}}-\frac{i\sqrt{2}\,k}{(1+2\,k^2)^2t_{\frac{2}{3}}}$	0	0								
$\overset{0}{\cdot}\overset{+}{\tau}^{\parallel}\dagger$	$\frac{i\sqrt{2}\,k}{(1+2\,k^2)^2t_{\frac{2}{3}}}\frac{2\,k^2}{(1+2\,k^2)^2t_{\frac{2}{3}}}$	0	0								
$\overset{0}{\cdot}\overset{+}{\tau}^{\perp}\dagger$	0	0	0								
$\overset{0}{\cdot}\overset{-}{\sigma}^{\parallel}\dagger$	0	0	0	$\frac{1}{k^2r_{\frac{2}{2}}}$	$\overset{1}{\cdot}\overset{+}{\sigma}^{\parallel}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{+}{\sigma}^{\perp}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{+}{\tau}^{\parallel}_{\alpha\beta}$	$\overset{1}{\cdot}\overset{-}{\sigma}^{\parallel}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{\sigma}^{\perp}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{\tau}^{\parallel}_{\alpha}$	$\overset{1}{\cdot}\overset{-}{\tau}^{\perp}_{\alpha}$
				$\overset{1}{\cdot}\overset{+}{\sigma}^{\parallel}\dagger^{\alpha\beta}$	$\frac{1}{k^2\left(2r_{\frac{2}{3}}+r_{\frac{5}{5}}\right)}$			0	0		
				$\overset{1}{\cdot}\overset{+}{\sigma}^{\perp}\dagger^{\alpha\beta}$	0			0	0	0	0
				$\overset{1}{\cdot}\overset{+}{\tau}^{\parallel}\dagger^{\alpha\beta}$	0			0	0	0	0
				$\overset{1}{\cdot}\overset{-}{\sigma}^{\parallel}\dagger^{\alpha}$	0			0	0	0	0
				$\overset{1}{\cdot}\overset{-}{\sigma}^{\perp}\dagger^{\alpha}$	0			0	0	0	0
				$\overset{1}{\cdot}\overset{-}{\tau}^{\parallel}\dagger^{\alpha}$	0			0	0	0	0
				$\overset{1}{\cdot}\overset{-}{\tau}^{\perp}\dagger^{\alpha}$	0			0	0	0	0
				$\overset{2}{\cdot}\overset{+}{\sigma}^{\parallel}_{\alpha\beta}\quad\overset{2}{\cdot}\overset{+}{\tau}^{\parallel}_{\alpha\beta}\quad\overset{2}{\cdot}\overset{-}{\sigma}^{\parallel}_{\alpha\beta\chi}$							
				$\overset{2}{\cdot}\overset{+}{\sigma}^{\parallel}\dagger^{\alpha\beta}-\frac{2}{3\,k^2r_{\frac{2}{3}}}\quad 0\quad 0$							
				$\overset{2}{\cdot}\overset{+}{\tau}^{\parallel}\dagger^{\alpha\beta}\quad 0\quad 0\quad 0$							
				$\overset{2}{\cdot}\overset{-}{\sigma}^{\parallel}\dagger^{\alpha\beta\chi}\quad 0\quad 0\quad 0$							

Source constraints

Spin-parity form	Covariant form	Multiplicities
$\overset{0}{\cdot}\overset{+}{\tau}^{\perp} == 0$	$\partial_{\beta}\partial_{\alpha\tau}(\Delta+\mathcal{K})^{\alpha\beta} == 0$	1
$-2\,i\,k\,\overset{0}{\cdot}\overset{+}{\sigma}^{\parallel}+\overset{0}{\cdot}\overset{+}{\tau}^{\parallel} == 0$	$\partial_{\beta}\partial_{\alpha\tau}(\Delta+\mathcal{K})^{\alpha\beta} == \partial_{\beta}\partial^{\beta}_{\tau}(\Delta+\mathcal{K})^{\alpha}_{\alpha}+2\,\partial_{\chi}\partial^{\chi}\partial_{\beta}\sigma^{\alpha}_{\alpha}{}^{\beta}$	1
$2\,i\,k\,\overset{1}{\cdot}\overset{-}{\sigma}^{\perp\alpha}+\overset{1}{\cdot}\overset{-}{\tau}^{\perp\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta\tau}(\Delta+\mathcal{K})^{\alpha\beta}+2\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial_{\beta}\sigma^{\beta\alpha\chi}$	3
$\overset{1}{\cdot}\overset{-}{\tau}^{\parallel\alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta\tau}(\Delta+\mathcal{K})^{\beta\alpha}$	3
$\overset{1}{\cdot}\overset{-}{\tau}^{\parallel\alpha\beta} == 0$	$\partial_{\chi}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\beta\chi}+\partial_{\chi}\partial^{\beta}_{\tau}(\Delta+\mathcal{K})^{\chi\alpha}+\partial_{\chi}\partial^{\chi}_{\tau}(\Delta+\mathcal{K})^{\alpha\beta} == \partial_{\chi}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\chi\beta}+\partial_{\chi}\partial^{\beta}_{\tau}(\Delta+\mathcal{K})^{\alpha\chi}+\partial_{\chi}\partial^{\chi}_{\tau}(\Delta+\mathcal{K})^{\beta\alpha}$	3
$\overset{1}{\cdot}\overset{-}{\sigma}^{\perp\alpha\beta} == 0$	$\partial_{\delta}\partial_{\chi}\partial^{\alpha}\sigma^{\chi\beta\delta}+\partial_{\delta}\partial^{\delta}\partial_{\chi}\sigma^{\chi\alpha\beta} == \partial_{\delta}\partial_{\chi}\partial^{\beta}\sigma^{\chi\alpha\delta}$	3
$\overset{2}{\cdot}\overset{-}{\sigma}^{\parallel\alpha\beta\chi} == 0$	$3\,\partial_{\epsilon}\partial_{\delta}\partial^{\chi}\partial^{\alpha}\sigma^{\delta\beta\epsilon}+3\,\partial_{\epsilon}\partial^{\epsilon}\partial^{\chi}\partial^{\alpha}\sigma^{\delta\beta}_{\delta}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\alpha\chi\delta}+4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\chi\alpha\delta}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\beta}\sigma^{\delta\alpha\chi}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\beta\alpha\delta}+$ $4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\beta}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\alpha\beta\chi}+3\,\eta^{\beta\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\alpha}\sigma^{\delta}_{\delta}{}^{\epsilon}+3\,\eta^{\alpha\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\beta\epsilon}+3\,\eta^{\beta\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\alpha}_{\delta}==$ $3\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\delta\alpha\epsilon}+3\,\partial_{\epsilon}\partial^{\epsilon}\partial^{\chi}\partial^{\beta}\sigma^{\delta\alpha}_{\delta}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\beta\chi\delta}+4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\chi\beta\delta}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\alpha}\sigma^{\delta\beta\chi}+2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\chi}\sigma^{\alpha\beta\delta}+$ $2\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\beta\alpha\chi}+4\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}\sigma^{\chi\alpha\beta}+3\,\eta^{\alpha\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\beta}\sigma^{\delta}_{\delta}{}^{\epsilon}+3\,\eta^{\beta\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial_{\delta}\sigma^{\delta\alpha\epsilon}+3\,\eta^{\alpha\chi}\,\partial_{\phi}\partial^{\phi}\partial_{\epsilon}\partial^{\epsilon}\sigma^{\delta\beta}_{\delta}$	5
$\overset{2}{\cdot}\overset{-}{\tau}^{\parallel\alpha\beta} == 0$	$4\,\partial_{\delta}\partial_{\chi}\partial^{\beta}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\chi\delta}+2\,\partial_{\delta}\partial^{\delta}\partial^{\beta}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\chi}_{\chi}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}_{\tau}(\Delta+\mathcal{K})^{\alpha\beta}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}_{\tau}(\Delta+\mathcal{K})^{\beta\alpha}+2\,\eta^{\alpha\beta}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial_{\chi\tau}(\Delta+\mathcal{K})^{\chi\delta}==$ $3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\beta\chi}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\alpha}_{\tau}(\Delta+\mathcal{K})^{\chi\beta}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}_{\tau}(\Delta+\mathcal{K})^{\alpha\chi}+3\,\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\beta}_{\tau}(\Delta+\mathcal{K})^{\chi\alpha}+2\,\eta^{\alpha\beta}\,\partial_{\epsilon}\partial^{\epsilon}\partial_{\delta}\partial^{\delta}_{\tau}(\Delta+\mathcal{K})^{\chi}_{\chi}$	5
Total expected gauge generators:		24

Massive spectrum

(There are no massive particles)

Massless spectrum

Massless particle

Pole residue:	$-\frac{26}{r_{\frac{2}{3}}}+\frac{39}{2r_{\frac{2}{3}}+r_{\frac{5}{5}}}-\frac{216}{r_{\frac{2}{3}}+2r_{\frac{5}{5}}}>0$
Polarisations:	2

Gauge symmetries

(Not yet implemented in PSALTer)

Unitarity conditions

$$\left(r_{\frac{2}{3}}<0\,\&\&\left(r_{\frac{5}{5}}<-\frac{r_{\frac{2}{3}}}{2}\,\parallel r_{\frac{5}{5}}>-2r_{\frac{2}{3}}\right)\right)\Big|\left(r_{\frac{2}{3}}>0\,\&\&-2r_{\frac{2}{3}}<r_{\frac{5}{5}}<-\frac{r_{\frac{2}{3}}}{2}\right)$$

Validity assumptions

(Not yet implemented in PSALTer)