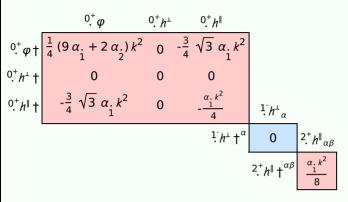
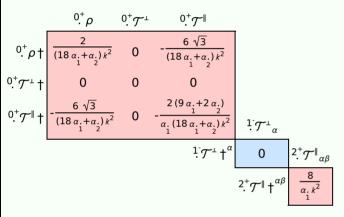
### **PSALTer results panel**

$$S = \iiint (\rho \, \varphi + \, h^{\alpha\beta} \, \mathcal{T}_{\alpha\beta} + \frac{1}{2} \, \alpha_{2} \, \partial_{\alpha} \varphi \, \partial^{\alpha} \varphi + \frac{1}{8} \, \alpha_{1} \, (36 \, (1 + 2 \, \varphi) \, \partial_{\alpha} \partial^{\alpha} \varphi - 12 \, \partial_{\alpha} h^{\beta}_{\ \beta} \, \partial^{\alpha} \varphi + 18 \, \partial_{\alpha} \varphi \, \partial^{\alpha} \varphi + 12 \, \partial^{\alpha} \varphi \, \partial_{\beta} h^{\alpha}_{\ \alpha} - 4 \, \partial_{\beta} \partial_{\alpha} h^{\alpha\beta} + 4 \, \partial_{\beta} \partial^{\beta}_{\ \alpha} h^{\alpha}_{\ \alpha} - \partial_{\beta} h^{\chi}_{\ \chi} \, \partial^{\beta}_{\ \alpha} h^{\alpha}_{\ \alpha} + 2 \, \partial^{\beta}_{\ \alpha} h^{\alpha}_{\ \alpha} \partial_{\chi} h^{\chi}_{\ \beta} - 2 \, \partial_{\beta} h_{\alpha\chi} \, \partial^{\chi}_{\ \alpha} h^{\alpha\beta} + \partial_{\chi} h^{\alpha\beta}_{\ \alpha} \partial^{\chi}_{\ \alpha} h^{\alpha\beta}_{\ \beta} - 4 \, \partial_{\beta} \partial_{\alpha} h^{\alpha\beta}_{\ \alpha} - 2 \, \partial_{\beta} h^{\chi}_{\ \alpha} \partial^{\chi}_{\ \beta} h^{\alpha}_{\ \alpha} + 2 \, \partial^{\beta}_{\ \beta} h^{\alpha}_{\ \alpha} + 2 \, \partial^{\beta}_{\ \beta} h^{\alpha}_{\ \alpha} + 2 \, \partial^{\beta}_{\ \beta} h^{\alpha}_{\ \alpha} - 2 \, \partial_{\beta} h^{\alpha\beta}_{\ \alpha} \partial^{\chi}_{\ \beta} h^{\alpha\beta}_{\ \alpha} - 4 \, \partial_{\beta} \partial_{\alpha} h^{\alpha\beta}_{\ \alpha} - 2 \, \partial_{\beta} h^{\chi}_{\ \alpha} - 2 \, \partial_{\beta} h^{\alpha}_{\ \alpha} - 2 \, \partial_{\beta} h^{\alpha}_{\ \alpha} \partial_{\lambda} h^{\chi}_{\ \beta} - 2 \, \partial_{\beta} h^{\alpha}_{\ \alpha} \partial_{\lambda} h^{\chi}_{\ \beta} - 4 \, \partial_{\beta} \partial^{\alpha}_{\ \alpha} h^{\chi}_{\ \alpha} - 6 \, \partial^{\beta}_{\ \beta} \partial^{\alpha}_{\ \alpha} \varphi \partial_{\lambda} h^{\chi}_{\ \alpha\beta} + 6 \, \partial_{\alpha} \partial^{\alpha}_{\ \alpha} \varphi \partial^{\chi}_{\ \alpha} h^{\chi}_{\ \alpha\beta} + 6 \, \partial_{\alpha} \partial^{\alpha}_{\ \alpha} \varphi \partial^{\chi}_{\ \alpha} h^{\chi}_{\ \alpha\beta} + 4 \, \partial_{\alpha} \partial^{\chi}_{\ \beta} h^{\alpha}_{\ \alpha} - 2 \, \partial_{\beta} h^{\chi}_{\ \alpha} \partial^{\chi}_{\ \alpha} h^{\chi}_{\ \beta} - 2 \, \partial_{\beta} \partial^{\beta}_{\ \alpha} h^{\chi}_{\ \alpha\beta} - 2 \, \partial_{\beta} \partial^{\beta}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} \partial^{\lambda}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} - 2 \, \partial_{\alpha} \partial^{\beta}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} \partial^{\lambda}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} - 2 \, \partial_{\alpha} \partial^{\beta}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} \partial^{\lambda}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} - 2 \, \partial_{\alpha} \partial^{\beta}_{\ \alpha} h^{\alpha\beta}_{\ \alpha\beta} \partial^{\lambda}_{\ \alpha\beta} h^{\alpha\beta}_{\ \alpha\beta} \partial^{\lambda}_{$$

### **Wave operator**



## **Saturated propagator**



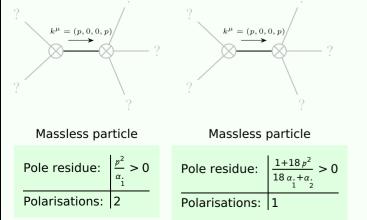
#### **Source constraints**

Spin-parity form	Covariant form	Multiplicities
$0^+\mathcal{T}^\perp == 0$	$\partial_{\beta}\partial_{\alpha}\mathcal{T}^{\alpha\beta} == 0$	1
$\frac{1}{2}\mathcal{T}^{\perp \alpha} == 0$	$\partial_{\chi}\partial_{\beta}\partial^{\alpha}\mathcal{T}^{\beta\chi} == \partial_{\chi}\partial^{\chi}\partial_{\beta}\mathcal{T}^{\alpha\beta}$	3
Total expected gauge generators:		4

# **Massive spectrum**

(No particles)

### **Massless spectrum**



# **Unitarity conditions**

$$\alpha_1 > 0 \&\& \alpha_2 > -18 \alpha_1$$