

$$S = \iiint \{ i_4^2 (2 \varepsilon_{\alpha} \mathcal{A}_{\alpha}^{\alpha\beta} \mathcal{A}_{\beta\gamma}^{\gamma} + \mathcal{A}^{\alpha\beta\gamma} (-2 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha} + 4 \mathcal{A}_{\alpha\beta\gamma}) + 4 \gamma^{\alpha\beta\gamma} \mathcal{A}_{\beta\gamma\alpha} - \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma}^{\alpha\beta} + \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma}^{\alpha\beta} - 2 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha} + 2 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma}^{\alpha\beta} + 4 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha}^{\alpha\beta} + 4 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha}^{\alpha\beta} - 4 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha}^{\alpha\beta} - 4 \varepsilon_{\alpha} \mathcal{A}_{\beta\gamma\alpha}^{\alpha\beta}) (t, x, y, z) dz dy dx dt$$

	$\mathcal{G}_1^{\text{new}}$	$\mathcal{G}_2^{\text{new}}$	$\mathcal{G}_3^{\text{new}}$	$\mathcal{G}_4^{\text{new}}$	$\mathcal{G}_5^{\text{new}}$	$\mathcal{G}_6^{\text{new}}$
$\mathcal{G}_1^{\text{new}}$	$\frac{36\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{2\sqrt{2}}{5\sqrt{13}}$	$\frac{24(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{8(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$
$\mathcal{G}_2^{\text{new}}$	$\frac{4\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{36\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{2\sqrt{2}}{5\sqrt{13}}$	$\frac{8(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{24(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$
$\mathcal{G}_3^{\text{new}}$	$\frac{2\sqrt{2}}{5\sqrt{13}}$	$\frac{2\sqrt{2}}{5\sqrt{13}}$	0	$\frac{4\sqrt{2}}{5\sqrt{13}}$	0	$\frac{4\sqrt{2}}{5\sqrt{13}}$
$\mathcal{G}_4^{\text{new}}$	$\frac{24(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{8(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}}{5\sqrt{13}}$	$\frac{36\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$
$\mathcal{G}_5^{\text{new}}$	$\frac{8(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{24(1+3\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}}{5\sqrt{13}}$	$\frac{36\sqrt{2}(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$
$\mathcal{G}_6^{\text{new}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}}{5\sqrt{13}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$	$\frac{4\sqrt{2}(1+\sqrt{2})(1+\sqrt{2})}{5\sqrt{13}\sqrt{5}}$

## Source constrain

### Massive spectrum

### Massless spectrum

## Unitarity condition