

GSW 227

vielbein e_m^μ

Rarita-Schwinger $\chi_{A\mu}$

$$\mathcal{L} = e_m^\mu e_n^\nu R_{\mu\nu}^{mn} + \bar{\chi}_\lambda \Gamma^{\lambda\mu\nu} D_\mu \chi_\nu$$

$$D = 7: \frac{\text{sugra}^{1:10|1}}{\mathbb{S}^4 \times \text{AdS}^{1:6|4}} = \text{sugra}^{1:6|4}$$

$$\begin{matrix} \mathbb{U} \\ 6:2|4 \end{matrix} \mathbb{R}^{6:2|4} \supset \begin{matrix} \mathbb{U} \\ 6:2 \end{matrix} \mathbb{R}^{6:2} \times \begin{matrix} \mathbb{U} \\ 5 \end{matrix} \mathbb{R}^5$$

$$D = 5: \frac{\text{sugra}^{1:10|1}}{\mathbb{S}^5 \times \text{AdS}^{1:4|1}} = \text{sugra}^{1:4|4}$$

$$\begin{matrix} \mathbb{U} \\ 2:2|4 \end{matrix} \mathbb{C}^{2:2|4} \supset \begin{matrix} \mathbb{U} \\ 4:2 \end{matrix} \mathbb{R}^{4:2} \times \begin{matrix} \mathbb{U} \\ 6 \end{matrix} \mathbb{R}^6$$