

$$\begin{cases} D4 \\ N8 \end{cases}$$

GSW 227

$$\frac{\text{sugra}^{1:10|1}}{\mathbb{S}^7 \times \text{AdS}^{1:3|1}} = \text{sugra}^{1:3|8}$$

$$\begin{matrix} \mathbb{U} \\ 1:3|8 \end{matrix} \mathbb{R}^{1:3|8} \supset \begin{matrix} \mathbb{U} \\ 3:2 \end{matrix} \mathbb{R}^{3:2} \times \begin{matrix} \mathbb{U} \\ 8 \end{matrix} \mathbb{R}^8$$

vierbein e_m^μ

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

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

$$\frac{\mathbb{R}^{1:10} \text{sugra}}{\mathbb{S}^7 \times \text{AdS}^{1:3}}$$

bosonic group $\text{SO}_{3:2} \times \text{SO}_8$

supergroup $\text{OSp}_{4|8}$