

$$D=7$$

$$E_8^4 = SL_5^{\mathbb{R}} \colon \text{ scalar coset } SL_5^{\mathbb{R}} /$$

$$E_7^4 GL_3^{\mathbb{R}} \colon \text{ scalar coset } GL_3^{\mathbb{R}} / O_3$$

$$E_6^4 = GL_2^{\mathbb{R}} \colon \text{ scalar coset } GL_2^{\mathbb{R}} / O_2$$

$$E_5^4 = \mathbb{R} \colon \text{ scalar coset } O_{1:1} \ni \mathbb{Q} \text{ dilaton}$$

$$\begin{cases} \mathbb{X} \\ \mathbb{Q} \\ \mathcal{Z} \end{cases} = \boxed{\mathbb{X}} + \frac{2}{\boxed{\mathbb{Q}}} - \mathfrak{e}^{2\sqrt{2/5}\mathbb{Q}} \frac{2}{\boxed{\mathcal{Z}}}$$

$$7\text{-dim bosonic string}$$

$$E_4^4 = 1$$

$$\text{pure gravity}$$

$$F_4^4 = 1$$

$$D_8^4 = O_{3:3} \times O_{1:1} \colon \text{ scalar coset } O_{3:3} / O_3 \times O_3 \times \mathbb{R}_>$$