Aspin

$$H_2^{\mathbb{Z}}\left(2_{\mathbb{C}}^0\right) = \mathbb{Z}^{3:3} \times E_8^2 = \mathbb{Z}^{3:19}$$

trivial $K_X = 0$

$\mathfrak{2} \in H^{2:0}\left(2_{\mathbb{C}}^0\right)$ Kahler form

$$\int_{2_{\mathbb{C}}^0} \mathfrak{2} \wedge \mathfrak{2} = 0$$

$$\int_{2_{\mathbb{C}}^0} \mathfrak{2} \wedge \bar{\mathfrak{2}} > 0$$

periods $\int_C \mathfrak{2}$

$$C \in H_2^{\mathbb{Z}}\left(2_{\mathbb{C}}^0\right)$$

marked K3=oriented 2-planes=$\mathrm{Gr}_{2:0}\left(\mathbb{R}^{3:19}\right) = U_{3:19}^{\mathbb{R}} / U_{2:0}^{\mathbb{R}} \times U_{1:19}^{\mathbb{R}}$

unmarked K3 $= U_{3:19}^{\mathbb{Z}} \backslash U_{3:19}^{\mathbb{R}} / U_{2:0}^{\mathbb{R}} \times U_{1:19}^{\mathbb{R}}$

$U_{3:19}^{\mathbb{Z}}$ ergodic action $\Longrightarrow$ non-hausdorff

$\mathfrak{1} \in H^{1:1}\left(2_{\mathbb{C}}^0\right)$ Kahler metric

$$\int_{2_{\mathbb{C}}^0} \mathfrak{1} \wedge \mathfrak{1} = \text{ Vol } > 0$$

Ric flat metric K3 $= U_{3:19}^{\mathbb{Z}} \backslash U_{3:19}^{\mathbb{R}} / U_{3:0}^{\mathbb{R}} \times U_{0:19}^{\mathbb{R}} \times \mathbb{R}_{>}$