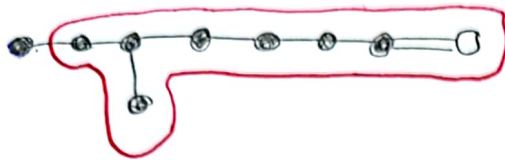


$(9,9,1)_1$

$\tilde{B}_7(z)$



$$(9,9,1)_1 = I_{1,1}(z) + \cancel{(7,7,1)_0}$$

$$(9,9,1)_1 \Rightarrow (8,8,1)_0$$

The cusp diag of $T = (1,1,1)_2$

$$\delta=1 \Rightarrow \bullet \rightarrow \bullet \quad \text{or} \quad \delta=0 \Rightarrow 0$$

0-cusps : odd $\Lambda = U \oplus \Lambda'$ $(r, a, \delta) = U \oplus (r-1, a-1, \delta)$



even odd

$$(r, a, \delta) = U(z) \oplus (r-1, a-1, \delta)$$



even char

$$(r, a, 1) = I_{1,1}(z) \oplus (r-1, a-1, 0)$$

The lattice $(8,8,1) = I_{9,8}(z) = \begin{bmatrix} -2 & & \\ & \ddots & \\ & & -2 \end{bmatrix}$

Compare to the unpol'd Enr.

$$v^2 = -2$$

$$v \in T_{E_8} = (12, 10, 0)_2 = E_{10}(z) = (U + E_8)(z)$$

$$v^\perp = T_{C_0} = (1, 1, 1)_2$$

$$\langle v \rangle = (1, 1, 1)_0$$

$$\frac{1}{2} \sum e_i$$
$$I_{2,10}(z)$$

$$\Lambda = v \oplus v^\perp = (1, 1, 1)_0 \oplus (1, 1, 1)_2 = (12, 12, 1)_2$$
$$\langle -2 \rangle \oplus I_{2,9}(z)$$
$$(12, 10, 0)_2$$
$$\frac{2(2-1)}{4} = \frac{1}{2}$$

$$T_{E_8}$$
$$\frac{1}{2} \Lambda / \Lambda$$

$$\begin{bmatrix} 2 & & \\ & 2 & \\ & & -2 \end{bmatrix}$$

A ~~table~~

$$(9,9,1)_1 \Rightarrow (8,8,1)_0$$

$$(10,10,1)_1$$

$$(9,9,1)_0$$

$$\cap 2:1$$

$$\cap \cancel{2:1}$$

$$(10,8,0)_1$$

$$(8,8,0)_0$$

Paper Allcock - Period lattice for Enriques sfcs

↳ Lemma 1

Namikawa Enriques: Unique -2 vector in
Serre Arithmetic

$\sqrt{-1} = 0$ (new -2 curve from sing)

See Conway's glue constructions