



2) For each \mathfrak{sl}_n , there are several non-trivial central ideals of \mathfrak{sl}_n , but there still exist one of our choice.
 Recall: for $M_{\mathbb{R}^n}(SL(n, \mathbb{R}))$ extend of
 $f = 1 + O(q^{L_{\mathbb{R}}/3} + 1)$ ($[L_{\mathbb{R}}] + 1 = \dim M_{\mathbb{R}^n}(1)$)
 exists and unique $\{\text{basis of } M_{\mathbb{R}^n}, E_1^{k_1}, E_2^{k_2}, \dots, E_n^{k_n}, 0, \dots, L_{\mathbb{R}}\}$
 and \underline{f} extend until $\underline{f} = f$)

The above case this is the most that can happen.

To discuss D_L we invert we what are the other invariants:

discriminant module: $D_L = (L^{\#}/L, Q)$

$$L^{\#} = \{x \in Q \otimes \mathbb{C} / \langle x, \alpha \rangle \leq 0\} \supseteq L$$

$$Q: L^{\#}/L \rightarrow \mathbb{Q}/\mathbb{Z}, x+L \mapsto Q(x) \in \mathbb{Q}/\mathbb{Z}$$

D_L is a finite quadratic module. ($\begin{array}{l} M = (M, Q), M \text{ is } \\ Q: M \rightarrow \mathbb{Q}/\mathbb{Z} \text{ is } \text{d.f.} \\ Q(xy) - Q(x)Q(y) \text{ is } \text{d.f.} \text{ and} \\ Q(x+x) = 2Q(x) \end{array}$)

Then let $L = \text{level of } D_L$ (i.e. smallest and $L > 0$ s.t. $Q(x) = 0 \iff x \in L$)
 $Q \equiv 0$, then $D_L = (-1)^{\#} L^{\#}/L$. Then

$$\theta_L \in M_{\mathbb{R}^n}(P_0(L), (\frac{A}{L}))$$

~~1) prime den.~~
~~2) $L \geq 1$, then $\# P_{L, 1}$ or more~~
~~3) $L \geq 1$ some description~~
~~Surprisingly~~ $g, SL(2)$ action, ~~ad~~^{ad}, $H^1(\mathfrak{g})$
 $M_{\mathbb{R}^n}(P, x) = \{f \in H^1(\mathfrak{g}) \mid f(\rho \otimes (1)) = 0\}$
~~+ some conditions~~
~~cancel. g~~