

$U(g) \otimes \mathbb{Q}[x] \rightarrow \mathbb{Q}[x]$ $\mathbb{Q}[x]$ is a Vir-module of $U(g)$.

$$\begin{array}{ccc}
 & H & \uparrow H \\
 U(g) & \longrightarrow & \mathbb{H} \\
 & \downarrow H & \downarrow \\
 & \mathbb{H} \otimes \mathbb{Q}[x]^* \otimes \mathbb{Q}[x] & \\
 & \downarrow & \\
 & \mathbb{H} \otimes \mathbb{Q}[x] & \\
 & \downarrow H & \downarrow I \\
 & \mathbb{H} \otimes \mathbb{Q}[x] & \longrightarrow \mathbb{Q}[x]
 \end{array}$$

The action

$$H_i \otimes \mathbb{Q}[x]_2 \rightarrow \mathbb{Q}[x]$$

is

$$\sim e^{(\zeta_1 + \zeta_2)x - \pi i \zeta_2}$$

$$\text{End}(\mathbb{Q}[x]) \rightarrow \mathbb{H}$$

$$\ni x^0 \longrightarrow$$

$$e^{\beta p} e^{\alpha x p} \sim e^{\gamma x p} e^{\alpha p} e^{\alpha p}$$

$$g(H) = e^{\eta(t p - \epsilon x p)} e^{\beta(t + \epsilon x p)} e^{\alpha x p} e^{\gamma x} / \Omega'$$

$$\begin{aligned}
 \text{at } \epsilon=0 \text{ this is } & \Omega'(e^{\eta t p} e^{\beta t} e^{\alpha x p} e^{\gamma x}) = \\
 & \Omega'(e^{\beta t} e^{\eta t p} e^{\alpha x p} e^{-\alpha} e^{\gamma x}) = e^{\beta t - \alpha} e^{\eta t p} e^{(\alpha p + \gamma)x}
 \end{aligned}$$