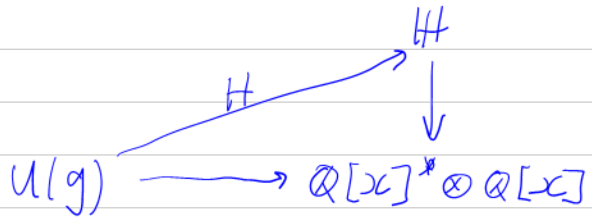
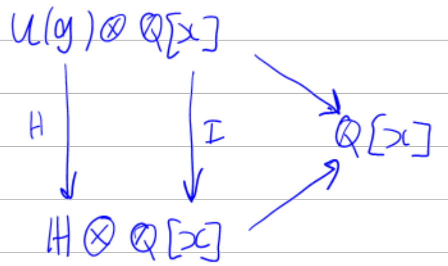
$U(g) \otimes Q[x] \longrightarrow Q[x]$ $\qquad$ $Q[x]$ is a Verma module of $U(g)$:



$Q[x] = U(g)/U(g)\langle y, a, b-t \rangle$

The action
$\mathbb{H}_1 \otimes Q[x]_2 \longrightarrow Q[x]$
is
$\sim e^{(\xi_1+\xi_2)x - \pi_1 \xi_2}$



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

$\xi^i x^j \longrightarrow$

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

$G(H) = e^{\eta(tp - \epsilon x p^2)} e^{\beta(t + \epsilon x p)} e^{\alpha x p} e^{\xi x} // \sigma'$

at $\epsilon = 0$ this is $\sigma'(e^{\eta t p} e^{\beta t} e^{\alpha x p} e^{\xi x}) =$

$\sigma'(e^{\beta t} e^{\eta t p} e^{\alpha p x - \alpha} e^{\xi x}) = e^{\beta t - \alpha} e^{\eta t p} e^{(\alpha p + \xi) x}$