Shatashvili
7/19/11

$SU(2) \times SU(2)$

$SO(4) \times U(N)$

$U(1)^2 \qquad U(1)^N$

$\mathbb{R}^2_{\varepsilon_1} \times \mathbb{R}^2_{\varepsilon_2} \qquad \underline{\underline{(a_1, \dots, a_N)}}$

Ω - background

$$\int e^{-\varepsilon_1 |z_1|^2 - \varepsilon_2 |z_2|^2} dz_1\, dz_2\, d\bar{z}_1\, d\bar{z}_2\, d^4\theta = \frac{1}{\varepsilon_1 \varepsilon_2}$$

$$\int e^{-\varepsilon_1 |z_1|^2 - \varepsilon_2 |z_2|^2} dz_1 d\bar{z}_1\, d^2\theta = (\quad)$$

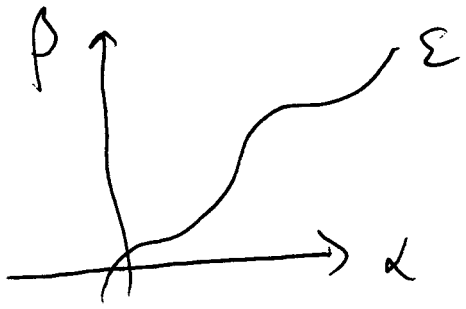
$$\log Z = \frac{1}{\varepsilon_1 \varepsilon_2} \mathcal{F}(a) + \dots$$

$$\tau = \frac{\dot{\imath}}{g^2} + \theta$$

$$Z(\varepsilon_1, \varepsilon_2) = \sum q^n \int_{M_n} (\quad)$$

$\varphi(x)$

$$\varphi(x)\Big(\quad\Big)_{(x,y)}\varphi(y) + q\int e^{\varphi}Q(x)$$



$(E,x) \to (\alpha,p)$

$E\,dx - \beta\,d\alpha = dW(x\alpha)$