

Langrangian Vertex Operator for Electrostatic Background Field in Ω

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Abstract

It's expected that electrostatic background signatures surmounts at the supersymmetric [SUSY] energy scale. These electrostatic background signatures is intrinsic to metamorphic space. In order to derive a Lagrangian vertex operator one must treat SUSY as a metamorphic phenomenon.

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SUSY and Metaspace

First we demonstrate the action integral for SUSY at $\mathcal{N} = 4$:[1]

$$I_{\text{SUSY}} = -\frac{1}{2} \int_M d^5 e^{i(\text{wt} - k\vec{x})} \sqrt{-g} [R - \frac{1}{\beta}] + \int_{\partial M} d^4 e^{i(\text{wt} - k\vec{x})} \hat{K} \sqrt{-h} - \int d^4 e^{i(\text{wt} - k\vec{x})} \sqrt{-h} \frac{1}{\beta}$$

One shows that the supersymmetric solution as equivalent to the Polyakov action integral linear sigma model for curve background fields. Such that:

$$I_{\text{SUSY}} = I_{\text{Polyakov}}$$

Then one relates the difference:

$$I_{\text{SUSY}} - I_{\text{Polyakov}} = \emptyset \implies \text{INTERFACE}$$

$$\begin{aligned} & [-\frac{1}{2} \int_M d^5 e^{i(\text{wt} - k\vec{x})} \sqrt{-g} [R - \frac{1}{\beta}] + \int_{\partial M} d^4 e^{i(\text{wt} - k\vec{x})} \hat{K} \sqrt{-h} - \int d^4 e^{i(\text{wt} - k\vec{x})} \sqrt{-h} \frac{1}{\beta}] - [\frac{1}{4\pi\beta^2} \int \partial^2 \xi [\sqrt{g} g^{\alpha\beta} G_{\mu}(x) + \epsilon^{\alpha\beta} B_{\mu}(x)] \\ & \partial_{\alpha} X \partial_{\beta} X + \frac{1}{4\pi} \int d^2 \xi \sqrt{g} R^{(2)} \Phi(x)] = \emptyset \end{aligned}$$

INTERFACE = $V \langle L, X^{\mu} \rangle = \emptyset$ which is the vertex operator that yields the following Lagrangian for SUSY phenomenon in metaspace [2]:

$$\mathcal{L} = \oint V \langle L, X^{\mu} \rangle = \emptyset$$

References

- [1] Sanchez-Rey, Miguel A. The Logical Structure of Space-Time. Vixra.org: 2011
- [2] Sanchez-Rey, Miguel A. Logical Form in Favor of Long Equations. Vixra.org: 2016.