Lagrangian 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 one demonstrates the action integral for SUSY at $\mathcal{N} = 4$:[1]

$$\mathrm{I}_{\;\mathrm{SUSY}} = -\frac{1}{2}\int_M d^5\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\,\sqrt{-g}\,[R - \tfrac{1}{l^3}] \;+\; \int_{\partial M} d^4\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\,\hat{K}\,\sqrt{-h}\; - \int d^4\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\,\sqrt{-h}\;\frac{1}{l^2}$$

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

$$\mathrm{I}_{\;\mathrm{SUSY}} = I_{\mathrm{Polyakov}}$$

Then one relates the difference:

$$\mathrm{I}_{\;\mathrm{SUSY}} - I_{\mathrm{Polyakov}} = \varnothing \Longrightarrow \mathrm{INTERFACE}$$

$$[\;-\frac{1}{2}\int_M d^5\;\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\;\sqrt{-g}\;[R - \tfrac{1}{l^3}] \;+\; \int_{\partial M} d^4\;\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\;\hat{K}\,\sqrt{-h}\; - \int d^4\;\, e^{i\,(\mathrm{wt}-k\,\vec{x})}\;\sqrt{-h}\;\;\frac{1}{l^2}] - [\frac{1}{4\,\pi\,l^2}\int \partial^2\xi\,[\sqrt{g}\;\,g^{\alpha\beta}\,G_\mu(x) \;+\; \epsilon^{\alpha\beta}\,B_\mu(x)]$$

$$\partial_\alpha X\,\partial_\beta X \;+\; \frac{1}{4\,\pi}\int d^2\,\xi\,\sqrt{g}\;\,R^{(2)}\;\Phi\,(x)] = \varnothing$$

INTERFACE = $\mathrm{V} < \mathrm{L},\; X^\mu > \; = \; \varnothing$ which is the vertex operator that yields the following Lagrangian for SUSY phenomenon in metaspace [2]:

$$\mathcal{L} = \oint \mathrm{V} < \mathrm{L},\; X^\mu > \; = \; \varnothing$$

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.