

Construction of vertex operator in GS superstring

There are 256 massless states in type IIA superstring theory. Field contents are composed of

$$\text{NS-NS sector: } 8_v \times 8_v = [0] + [2] + (2) = 1 + 28 + 35_v$$

$$\text{R-R sector: } 8_c \times 8_s = [1] + [3] = 8_v + 56_v$$

$$\text{NS-R sector: } 8_v \times 8_s = [1] + [3] = 8_c + 56_c$$

$$\text{R-NS sector: } 8_c \times 8_v = [1] + [3] = 8_s + 56_s$$

Vertex operators for closed string modes are constructed by the product of left-mover and right-mover (~open string):

$$V(\sigma, \tau) = V_R(\tau - \sigma) V_L(\tau + \sigma)$$

Superstring Construction

**Gabriele Fici, Marinella
Sciortino, Rossano Venturini**



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Superstring Construction A.N. Schellekens,2012-12-02 The book includes a selection of papers on the construction of superstring theories mainly written during the years 1984 1987 It covers ten dimensional supersymmetric and non supersymmetric strings four dimensional heterotic strings and four dimensional type II strings An introduction to more recent developments in conformal field theory in relation to string construction is provided **Superstring Construction**

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