Spinor Field Realizations of Non-critical $W_{2,4}$ String Based on Linear $W_{1,2,4}$ Algebra

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Abstract: In this paper, we investigate the spinor field realizations of the $W_{2,4}$ algebra, making use of the fact that the $W_{2,4}$ algebra can be linearized through the addition of a spin-1 current. And then the nilpotent BRST charges of the spinor non-critical $W_{2,4}$ string were built with these realizations.

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