

## Calculation of Quantum Probability in $O(2,2)$ String Cosmology with a Dilaton Potential

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Abstract: The quantum properties of  $O(2,2)$  string cosmology with a dilaton potential are studied in this paper. The cosmological solutions are obtained on three-dimensional space-time. Moreover, the quantum probability of transition between two duality universe is calculated through a Wheeler-De Witt approach.

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Key words: quantum probability,  $O(2,2)$  string cosmology, dilaton potential

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