

Flat Currents of Green-Schwarz Superstring in $AdS_2 \times S^2$ Background

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Abstract: From the κ -symmetric action of IIB string in $AdS_2 \times S^2$ background given by Zhou, we derive the equations of motion. By using the twisted dual transformation which was introduced by Hou, we construct the flat currents, conserving non-local charge with one free parameter, for the superstring in $AdS_2 \times S^2$.

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Key words: Green-Schwarz superstring, integrability, $AdS_2 \times S^2$

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