

Conformal Affine Toda Fields on Loop Algebra: $A_2^{(2)}$ Case

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Abstract: By studying the $A_2^{(2)}$ Toda model based on the twist affine algebra $A_2^{(2)}$, we obtained the conformal-invariant property of the $A_2^{(2)}$ Toda equation. Furthermore we presented the classical r-matrix that satisfies the Yang-Baxter equation.

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Key words: conformal invariant, loop algebra, Toda, R-matrix

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