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High Energy Physics - Theory

(Submitted on 26 Jul 2011)

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We use Anti-de Sitter quantum field theory to prove a new class of identities between hypergeometric functions related to the K\"all\'en-Lehmann representation of products of two Anti-de Sitter two-point functions. A rich mathematical structure emerges. We apply our results to study the decay of unstable Anti-de Sitter particles. The total amplitude is in this case finite and Anti-de Sitter invariant.

Anti de Sitter quantum field theory and a

Jacques Bros, Henri Epstein, Michel Gaudin, Ugo Moschella, Vincent Pasquier

new class of hypergeometric identities

Subjects: High Energy Physics - Theory (hep-th); Mathematical Physics (math-ph) Cite as: arXiv:1107.5161 [hep-th] (or arXiv:1107.5161v1 [hep-th] for this version)

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