

**A MODIFIED ENDPOINT ESTIMATE OF THE KUNZE-STEIN
PHENOMENON ASSOCIATED WITH COMPLEX SEMISIMPLE LIE
GROUPS.**

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Abstract

The endpoint estimates for the Kunze-Stein phenomenon associated with real rank one semisimple Lie groups and the Jacobi hypergroup were respectively obtained by A. Ionescu and J. Liu. Recently, in the case of the Jacobi hypergroup, an alternative proof using the Abel transform was obtained by the first author. In this paper we apply the same argument to the complex semisimple Lie groups and prove a modified endpoint estimate for the Kunze-stein phenomenon associated with the complex semisimple Lie groups.