Extreme Rays in $3 \otimes 3$ Entangled Edge States with Positive Partial Transposes

Woo Chan Kim

Department of Mathematical Sciences, Seoul National University, Seoul, 151-747, Korea wckim@math.snu.ac.kr

In this paper, we show that the $3 \otimes 3$ edge PPTES of the type (5,5) found by Clarisse and Ha generate extreme rays in the cone of all positive semi-definite matrices with positive semi-definite partial transposes.