The Schmidt number of entangled states with positive partial transposes on $3 \otimes 3$ system

Woo Chan Kim

Department of Mathematics, Seoul National University, Korea

`wckim@math.snu.ac.kr`

Recently, Clarisse and Ha found examples of types $(5, 5)$ and $(6, 6)$ entangled states with positive partial transposes. In this paper, we show that their examples have the Schmidt number as 2.