UNEXTENDIBLE MAXIMALLY ENTANGLED BASIS IN $C^8 \otimes C^{8*}$

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ABSTRACT

In order to construct unextendible maximally entangled basis (UMEB) in $C^8 \otimes C^8$, we find that it can be constructed from that in $C^4 \otimes C^4$. In this paper, we will use the 12 member UMEB in $C^4 \otimes C^4$ to construct 56-member UMEB in $C^8 \otimes C^8$, and give the corresponding proof.