Construction of Unextendible Maximally Entangled Bases in Specific Space

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Abstract: We study the construction of unextendible maximally entangled bases (UMEB) from lower space to the higher space. Then we give the concrete forms of the UMEBs in $C^{10} \otimes C^{12}$, $C^{10} \otimes C^{15}$ and $C^{10} \otimes C^{18}$ from the UMEBs in $C^5 \otimes C^5$ and $C^5 \otimes C^6$.

Keywords: Maximally entangled bases (MEB); Unextendible maximally entangled bases (UMEB); Bipartite space

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