Adjacency preserving maps on hermitian matrices

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Two hermitian matrices A and B are said to be adjacent if $\operatorname{rank}(A-B)=1$. Maps on hermitian matrices preserving adjacency are important because of applications in physics, complex analysis, and the theory of linear preservers. Under some mild conditions such maps were characterized by Hua. A short proof of Hua's theorem was given by Radjavi and Šemrl. We will present a recently obtained improvement of this result.