

# On the Ando-Khatskevich-Shulman Theorem

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A short proof of the Ando-Khatskevich-Shulman theorem about convexity and weak compactness of the image of the operator unit ball by a fractional linear transformation is given. We consider also an application of this result to the invariant subspace problem for non-contractive operators in Krein spaces.

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