

Jiménez-Vargas, A.; Mena-Jurado, J. F.; Nahum, R.; Navarro-Pascual, J. C.
Averages of uniformly continuous retractions. (English) Zbl 0960.46012
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It is shown that for an infinite-dimensional complex normed space the identity map on its closed unit ball B can be expressed as the average of three continuous retractions of B onto the unit sphere. For $0 \leq r \leq 1$, the retractions are Lipschitz on rB . However, these retractions cannot be required to be retractions onto B .

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MSC:

[46B20](#) Geometry and structure of normed linear spaces

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uniformly continuous; averages; retractions; continuous retractions

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