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Equivalence between p -cyclic quasimonotonicity and p -cyclic monotonicity of affine maps

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Abstract

We prove that the notions of p -cyclic quasimonotonicity and p -cyclic monotonicity are equivalent for affine maps defined on Banach spaces. First this is done in a finite dimensional space by using the index of asymmetry for matrices defined by J.-P. Crouzeix and C. Gutan. Then this equivalence is extended to general Banach spaces.

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