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Making factorizations compositive

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Abstract: The main aim of this paper is to obtain compositive cone factorizations from non-compositive ones by iteration. This is possible if and only if certain colimits of (possibly large) chains exist. In particular, we show that (strong-epi, mono) factorizations of cones exist if and only if joint coequalizers and colimits of chains of regular epimorphisms exist.

Keywords: (locally) orthogonal \mathcal{E} -factorization, (local) factorization class, colimit of a chain, cointersection, regular epimorphism, joint coequalizer, (familiially) strong epimorphism, decomposition number

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