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A double completion for an arbitrary T_0 -quasi-metric space

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We present a conjugate invariant method for completing any T_0 -quasi-metric space. The completion is built as an extension of the bicompletion of the original space. For balanced T_0 -quasi-metric spaces our completion yields up to isometry the completion due to Doitchinov. The question which uniformly continuous maps between T_0 -quasi-metric spaces can be extended to the constructed completions leads us to introduce and investigate a new class of maps, which we call balanced maps.

(This is joint work with Charly Makitu Kivuvu from the Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch 7701, South Africa.)