

## Regularity of mappings vs transversality of collections of sets

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Transversality properties of finite collections of sets and their connections with the corresponding regularity properties of set-valued mappings will be discussed. Dual characterizations of the properties in terms of Fréchet, limiting and proximal normals will be provided.

A. Y. Kruger and N. H. Thao, Regularity of collections of sets and convergence of inexact alternating projections, *J. Convex Anal.* 23 (2016).

A. Y. Kruger, D. R. Luke and N. H. Thao, Set regularities and feasibility problems, *Math. Program.*, to appear.

A. Y. Kruger, D. R. Luke and N. H. Thao, About subtransversality of collections of sets, preprint.