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Clemens Kirisits* (clemens.kirisits@ricam.oeaw.ac.at) and **Otmar Scherzer**. *Polyconvex regularization for inverse problems*.

Polyconvex integrands give rise to a large class of regularization functionals, which are of particular relevance for inverse problems with deformations as unknowns. However, due to their lack of convexity such functionals are generally not covered by existing regularization theory. In this talk we focus on the question of how to translate convergence rates results from the convex to the polyconvex setting. (Received September 25, 2017)