

REGULARITY FOR A-QUASICONVEX VARIATIONAL PROBLEMS

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We consider variational problem with A-free constraints under the constant rank condition. The lower semicontinuity of those problems has been well understood, one prominent work being the equivalence of the lower semicontinuity and the A-quasiconvexity condition by Fonseca and Müller. In this talk, we will focus on the regularity of minimisers under the strong A-quasiconvexity condition, and discuss how to establish partial continuity and higher integrability in these degenerate problems. This talk is based on joint work with Bogdan Raita.