

1020-35-107

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77005. *An Energy Reducing Flow for Multiple-Valued Functions.*

By the method of discrete Morse flows, we construct an energy reducing multiple-valued function flow. The flow we get is Holder continuous with respect to the L-2 norm. We also give another way of constructing flows in some special cases, where the flow we get behaves like ordinary heat flow. (Received August 21, 2006)