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Divergence Form Parabolic Equations On Noncylindrical Quasiconvex Domains.

In this talk, we investigate the L^p regularity of divergence form parabolic equations on noncylindrical quasiconvex domains. Approximation by convex domain in the parabolic space is the main motivation for the noncylindrical quasiconvex domain. Similar to the elliptic case, the maximal function technique, Vitali covering lemma and compactness method are the main analytical tools. (Received January 25, 2011)