## Quasisteady thermoelastic problems with nonconvex potentials

Pavel Plotnikov, Novosibirsk

We give a global existence theorem of weak solution governing the slow evolution of bounded thermoelastic body. It is supposed that the energy density is a smooth functions of the deformation gradient  $\nabla u$  and the temperature  $\theta$  so that it is quasiconvex in  $\nabla u$ and concave in  $\theta$ . We prove that the corresponding initial-boundary value problem has at least one generalised solution satisfying both the maximum entropy principle and minimum entropy production principle.