

1035-49-492

**Marian Bocea\*** ([marian.bocea@ndsu.edu](mailto:marian.bocea@ndsu.edu)), Department of Mathematics, 300 Minard Hall,  
North Dakota State University, Fargo, ND 58105. *The Power-Law Asymptotics for Some Model  
Problems of Polycrystal Plasticity.*

The asymptotic analysis for a general class of power-law functionals acting on divergence free fields is performed by means of  $\Gamma$ -convergence. Some consequences are described in the settings of antiplane shear and plane stress plasticity. (Received September 09, 2007)