1046-49-96   **Marian Bocea*** (`marian.bocea@ndsu.edu`), Department of Mathematics, 300 Minard Hall, North Dakota State University, Fargo, ND 58105. *Variational characterizations of the yield set of a polycrystal: some model cases.*

New variational characterizations of the yield set of a polycrystal are presented in several model cases. The results are consequences of an asymptotic analysis of power-law functionals via Γ-convergence. (Received July 22, 2008)