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**Alain Miranville\*** ([miranv@math.univ-poitiers.fr](mailto:miranv@math.univ-poitiers.fr)), Universite de Poitiers, Mathematiques, SP2MI, Futuroscope, 86962. *The phase-field crystal model with a logarithmic nonlinear term.*

Our aim in this talk is to discuss the well-posedness of the phase-field crystal model with a logarithmic nonlinear term. In particular, we prove the existence and uniqueness of variational solutions, based on a variational inequality. (Received December 08, 2014)