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Alain Miranville* (miranv@math.univ-poitiers.fr), Mathematics department - SP2MI, 86962 Chasseneuil, France. *The Cahn-Hilliard equation and some of its variants.*

Our aim in this talk is to present and discuss the Cahn-Hilliard equation in phase separation, as well as some of its variants. Such variants have applications, e.g., in biology or in image inpainting. (Received August 03, 2015)