1056-60-1379   **Richard S Ellis**, **Jonathan Machta** and **Peter T Otto*** (`potto@willamette.edu`),
Department of Mathematics, Willamette University, Salem, OR 97301. *Asymptotic behavior of the finite-size magnetization as a function of the speed of approach to criticality.*

The main focus of this paper is to determine whether the thermodynamic magnetization is a physically relevant estimator of the finite-size magnetization. This is done by comparing the asymptotic behaviors of these two quantities along parameter sequences converging to either a second-order point or the tricritical point in the mean-field Blume-Capel model. (Received September 21, 2009)