

**Title:** Communication: The criticality of self-assembled rigid rods on triangular lattices

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**Source:** Journal of Chemical Physics

**Volume:** 134 **Issue:** 7 **Article Number:** 071101 **DOI:** 10.1063/1.3556665 **Published:** Feb 21 2011

**Document Type:** Article

**Language:** English

**Abstract:** The criticality of self-assembled rigid rods on triangular lattices is investigated using Monte Carlo simulation. We find a continuous transition between an ordered phase, where the rods are oriented along one of the three (equivalent) lattice directions, and a disordered one. We conclude that equilibrium polydispersity of the rod lengths does not affect the critical behavior, as we found that the criticality is the same as that of monodisperse rods on the same lattice, in contrast with the results of recently published work on similar models. (C) 2011 American Institute of Physics. [doi:10.1063/1.3556665]

**Author Keywords:** Nematic Phase-Transition; Monte-Carlo; Critical Exponents; Potts-Model; Universality

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**Publisher:** Amer Inst Physics

**Publisher Address:** Circulation & Fulfillment Div, 2Huntington Quadrangle, STE 1 N O 1, Melville, NY 11747-4501 USA

**ISSN:** 0021-9606

**Citation:** ALMARZA, N. G.; TAVARES, J. M.; TELO DA GAMA, M. M. - Communication: The criticality of self-assembled rigid rods on triangular lattices. Journal of Chemical Physics. ISSN 0021-90606. Vol. 134, n.º7 (2011).