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Three-state opinion q-voter model with bounded confidence

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We study the q-voter model with bounded confidence on the complete graph. Agents can be in one of three states. Two types of agents behaviour are investigated: conformity and independence. We analyze whether this system is qualitatively different from a corresponding model without bounded confidence. Our main results are the following. Firstly, the system has two phase transitions: one between order-order phases and another between order-disorder phases. Secondly, the first transition is discontinuous in all analyzed cases, while the type of second transition depends on the size of group of influence.

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