

Accepted Manuscript

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PII: S0378-4371(17)30775-6

DOI: <http://dx.doi.org/10.1016/j.physa.2017.08.042>

Reference: PHYSA 18488

To appear in: *Physica A*

Received date: 8 February 2017

Revised date: 2 June 2017

Please cite this article as: E.N. Tsiok, Y.D. Fomin, V.N. Ryzhov, Random pinning elucidates the nature of melting transition in two-dimensional core-softened potential system, *Physica A* (2017), <http://dx.doi.org/10.1016/j.physa.2017.08.042>

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Random pinning elucidates the nature of melting transition in two-dimensional core-softened potential system

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- 2D melting transition in the presence of random pinning is studied
- The two-step melting with first order hexatic-liquid transition is found
- The diffusivity and order parameters in the hexatic phase are calculated
- Random pinning does not change the melting scenario
- Random pinning widens the hexatic phase

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