

THE MECHANISM OF ATTRACTION BETWEEN LIKE-CHARGED PARTICLES IN DUSTY PLASMA

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One the main characteristic of dust plasma is the existence of the forces of attraction between like-charged particles, which leads to the formation of ordered structures – plasma-dust crystals. By present several mechanisms of attraction forces differing in their manifestation have been suggested, the majority of there mechanisms being described in considerable detail in [1].

The present paper suggests a new mechanism of macroparticles attraction which is based on physical processes [2] responsible for the magneto-mechanical effect and levitation of the plasma-dust structure in magnetic field.

1. Fortov V.E., Khrapak A.G., Khrapak C.A., Molotkov V.I., Petrov O.F. PHYS-USP, 2004, **47**(5).
2. Shaikhitdinov R.Z. Doklady Physics, 2007, **52**(12).