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THE FOUR-DIMENSIONAL SELF-CONSISTENT MODEL OF THE BUNCH OF CHARGED PARTICLES

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strong text The four-dimensional non-stationary model of a bunch of the particles interacting with own field is studied. For the description of behavior of a bunch the "Meshchersky's integral" allowing to give completely self-consistent kinetic description in 8-dimensional phase space is used. In the considered task the self-coordinated potential determines interaction forces in 3-dimensional space.

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