



# Physics of Gravitating Systems I: Equilibrium and Stability

*A.M. Fridman, V.L. Polyachenko*

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It would seem that any specialist in plasma physics studying a medium in which the interaction between particles is as distance-dependent as the interaction between stars and other gravitating masses would assert that the role of collective effects in the dynamics of gravitating systems must be decisive. However, among astronomers this point of view has been recognized only very recently. So, comparatively recently, serious consideration has been devoted to theories of galactic spiral structure in which the dominant role is played by the orbital properties of individual stars rather than collective effects. In this connection we would like to draw the reader's attention to a difference in the scientific traditions of plasma physicists and astronomers, whereby the former have explained the delay of the onset of controlled thermonuclear fusion by the "intrigues" of collective processes in the plasma, while many a generation of astronomers were calculating star motions, solar and lunar eclipses, and a number of other fine effects for many years ahead by making excellent use of only the laws of Newtonian mechanics. Therefore, for an astronomer, it is perhaps not easy to agree with the fact that the evolution of stellar systems is controlled mainly by collective effects, and the habitual methods of theoretical mechanics III astronomy must make way for the method of self-consistent fields.

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