Bespalko, E. V.; **Mikheev, S. A.**; **Puzynin, I. V.**; **Tsvetkov, V. P.**
A gravitating rapidly rotating superdense configuration with realistic state equations. (Russian. English summary) Zbl 1100.85001
Mat. Model. 18, No. 3, 103-119 (2006).

The well known hydrostatic equilibrium equations of a gravitating rapidly rotating superdense configuration in post-Newtonian approximation have a bifurcation point in their solutions. Here, it is shown that the bifurcation point problem can be reduced to a real solution of a cubic algebraic equation in a domain of physical values of some parameters.

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