3 but in types which are different from the existance of electrostatically (atoms) and gravitationally (multiple stars and planets system) connected system. The last, as it is known, is the consequence of special properties of the task with two bodies in three-dimensional space decision.

Also the question about the studing of another Universes possibility appears in the case of their existance idea confirmation. But in such case will the abstract about the experience (experiment) as the source of know ledge acquiring be true. Such studing will be possible only on the base of controling appropriate theory about observing in our Universe, e.g. basically the nature of knowledge acquiring process will not change. But again manifestation measure of this process through another phenomena will essentially grow. As it have taken place when passing from macrocosm studing to microcosm and megacosm studing.

References

Linde A.D.: 1990, Elementary particles physics and inflational cosmology, (Moscow), 275

Madelung E.: 1957, Die mathematisehen hilfsmittel des physikers, (Berlin), 630.

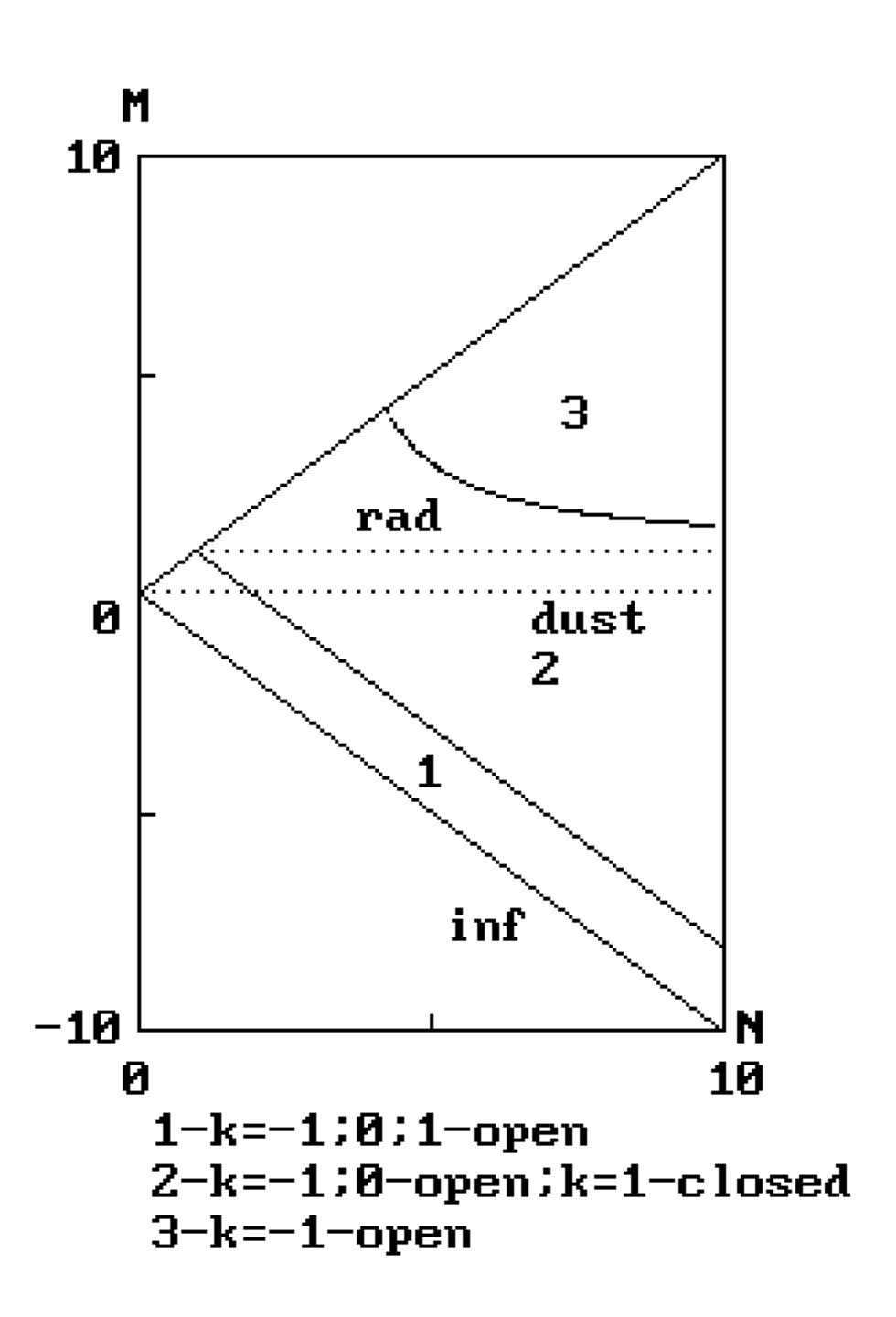


Figure 1. The dependence of cosmological models from parameters N and M.

2D CALCULATIONS OF COLLAPSE OF ROTATING MAGNETIZED BODIES

N.V. Ardeljan, G.S. Bisnovatyi-Kogan, S.G. Moiseenko

¹ Moscow State University, Vorobjevy gory, Moscow B-234 119899, Russia

² Space Research Institute, 84/32, Profsoyuznaya st., Moscow, 117810, Russia

ABSTRACT. 2D numerical simulation of the collapse of rotating magnetized cloud has been made as preliminary investigation of magnetorotational mechanism of supernova explosion. The part of envelope of the cloud is throwing out when magnetic pressure becomes comparable with gas pressure. The amount of

mass of the envelope thrown out and the energy it carries away are estimated.

Key words: stellar dynamics, magnetohydrodynamics, numerical methods

Accepted in: "Astrophysics and Space Science."