EVOLUTION Of flute –type instabilities in a gasdynamic trap [[1]](#footnote-1)\*)

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The paper presents results of numerical modeling of nonlinear evolution of flute-type modes in gasdynamic traps. The present model can describe magnetohydrodynamic modes driven by gradients of pressure, density, temperature and rotation velocity at finite plasma pressure. Four types of classic linear instabilities are demonstrated under special conditions. The nonlinear “vortex confinement” regime of GDT operation is revisited.

1. \*) [DOI: abstracts of this report in Russian](http://www.fpl.gpi.ru/Zvenigorod/XLVII/Mu/ru/AF-Beklemishev.docx) [↑](#footnote-ref-1)