## ELABORATION OF THE ARNOLD THEOREM ON ELLIPSOIDS' SPACE CODIMENSION

Natela Chachava, <u>Ilia Lomidze</u>
Engineering Physics Department of the Georgian Technical University, Tbilisi, Georgia lomitsu@gmail.com

We have shown that a set of ellipsoids of revolution forms a boundary of the space of generic ellipsoids and therefore does not divide the generic ellipsoids' space. It is shown that to fix position of the point on this boundary - ellipsoid of revolution – it is necessary to have an additional discrete parameter.