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## EXCEPTIONAL PSEUDOGEOMETRIC GRAPHS WITH EIGENVALUE $r$

A. Kh. Zhurtov

A. Neumaier enumerated the parameters of strongly regular graphs with smallest eigenvalue  $-m$ . As a corollary it is proved that for a positive integer  $r$  there exist only finitely many pseudogeometric graphs for  $pG_{s-r}(s, t)$  with parameters different from the parameters of the net  $pG_{s-r}(s, s-r)$  and from the parameters of the  $pG_{s-r}(s, (s-r)(r+1)/r)$  graph complementary to the line graph of a Steiner 2-design ( $s$  is a multiple of  $r$ ). In this paper we explicitly specify functions  $f(r)$  and  $g(r)$  such that for  $s > f(r)$  or  $t > g(r)$  any pseudogeometric graph for  $pG_{s-r}(s, t)$  has parameters of the net  $pG_{s-r}(s, s-r)$  or parameters of  $pG_{s-r}(s, (s-r)(r+1)/r)$ .

Keywords: strongly regular graph, pseudogeometric graph.

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*Archil Khazeshovich Zhurtov*, Dr. Phys.-Math. Sci., Kabardino-Balkarian State University named after H. M. Berbekov, Nal'chik, 360004 Russia, e-mail: zhurtov\_a@mail.ru.

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