TRUDY INSTITUTA MATEMATIKI I MEKHANIKI UrO RAN

Vol. 22 No. 1 **2016**

ON $K_{1,3}$-FREE STRICTLY DEZA GRAPHS

Received December 05, 2015

A. V. Mityanina

A Deza graph with parameters (v, k, b, a) is a k-regular graph with v vertices where any two vertices have either a or b common neighbors. We describe strict Deza graphs that do not contain $K_{1,3}$ among their induced subgraphs and are unions of closed neighborhoods of two nonadjacent vertices. The latter condition means that there are two nonadjacent vertices such that any other vertex is adjacent to at least one of them.

Keywords: $K_{1,3}$-free graphs, strictly Deza graphs.

A. V. Mityanina, teacher, Chelyabinsk State University, Chelyabinsk, 454001 Russia
e-mail: nastya.mityanina@gmail.com .

Cite this article as:
A. V. Mityanina. On $K_{1,3}$-free strictly Deza graphs, *Trudy Inst. Mat. Mekh. UrO RAN*, 2016, vol. 22, no. 1, pp. 231–234 .