

1102-05-102

**Sylwia Cichacz\*** (cichacz@agh.edu.pl), Solon Campus Center 170, Duluth, MN 55812, and  
**Mateusz Nikodem** (nikodem@agh.edu.pl), al. Mickiewicza 30, 30-059 Kraków, Poland. *Union  
of distance magic graphs.*

A distance magic labeling of a graph  $G = (V, E)$  with  $|V| = n$  is a bijection  $\ell$  from  $V$  to the set  $\{1, \dots, n\}$  such that the weight  $w(x) = \sum_{y \in N_G(x)} \ell(y)$  of every vertex  $x \in V$  is equal to the same element  $\mu$ , called the *magic constant*.

In the talk, we present some results on union of distance magic graphs that is distance magic as well. Moreover we also show some properties of such graphs. (Received July 23, 2014)