

Year: 2015

Vol.: 86

Fasc.: 3-4

**Title:** Rings whose unit graphs are planar

**Author(s):** Huadong Su, Gaohua Tang and Yiqiang Zhou

The unit graph of a ring  $R$  is the simple graph  $G(R)$  with vertex set  $R$ , where two distinct vertices  $x$  and  $y$  are adjacent if and only if  $x + y$  is a unit of  $R$ . In this paper, we completely characterize the rings whose unit graphs are planar.

**Address:**

Huadong Su  
Department of Mathematics  
and Statistics  
Memorial University of Newfoundland  
St. John's, Nfld A1C 5S7  
Canada  
and  
School of Mathematical and Sciences  
Guangxi Teachers Education University  
Nanning, Guangxi, 530023  
P.R. China

**Address:**

Gaohua Tang  
School of Mathematical Science  
Guangxi Teachers Education University  
Nanning 530023  
P.R. China

**Address:**

Yiqiang Zhou  
Department of Mathematics  
and Statistics  
Memorial University of Newfoundland  
St. John's, Nfld A1C 5S7  
Canada