

# VCU Discrete Mathematics Seminar

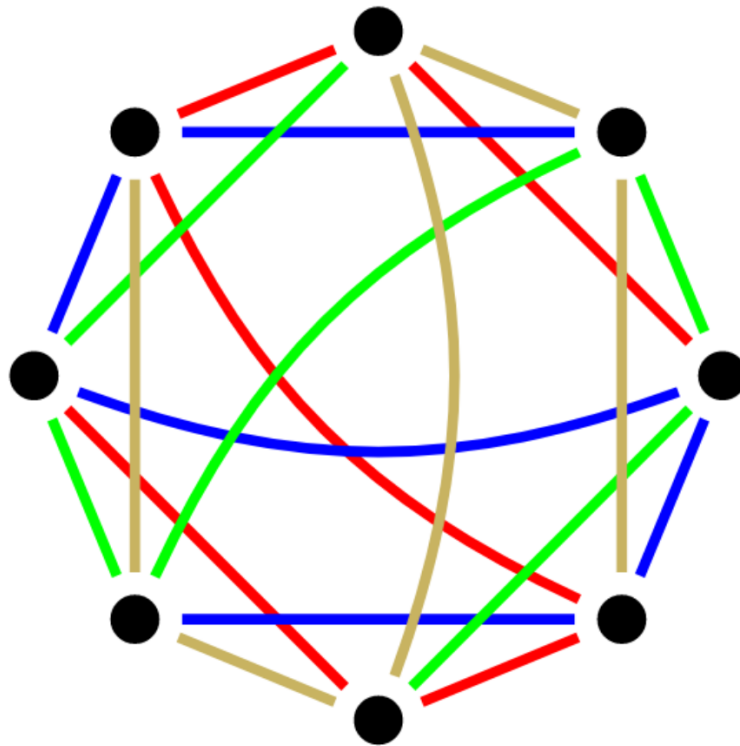
## *Decomposing Equipartite Multigraphs With Two Associate Classes Into Paths Of Length 3*

**Bin Yeh**  
**VCU!**

Wednesday, Oct. 10

1:00-1:50

4145 Harris Hall



A decomposition of a graph  $G$  is a partition of its edge set  $E(G)$ . A multigraph is called equipartite with two associate classes, denoted as  $G(n, p, \lambda_1, \lambda_2)$ , if it has  $np$  vertices partitioned into  $p$  parts of size  $n$ , in which two vertices are joined by  $\lambda_1$  edges if they are in the same part and by  $\lambda_2$  edges if they are in different parts.

In this talk a complete solution to the decomposition problem for equipartite graphs with two associate classes into paths of length 3 is presented.

For the DM seminar schedule, see:

<http://www.people.vcu.edu/~dcranston/DM-seminar>