

# Combinatorics and Graph Theory Seminar

Friday, Oct 10th, 2014  
2:00 pm-2:50 pm in Hume 331

## Decomposing cubic graphs with low genus

Professor Dong Ye  
Middle Tennessee State University

### ABSTRACT

It was conjectured by Ho man-Ostenhof that the edge set of every cubic graph can be decomposed into a spanning tree, a matching and a family of cycles. We prove the conjecture for 3-connected cubic graphs with low genus. Our method provides a polynomial time algorithm to find the decomposition.