



The Allegheny College Mathematics Department  
Presents Guest Speaker

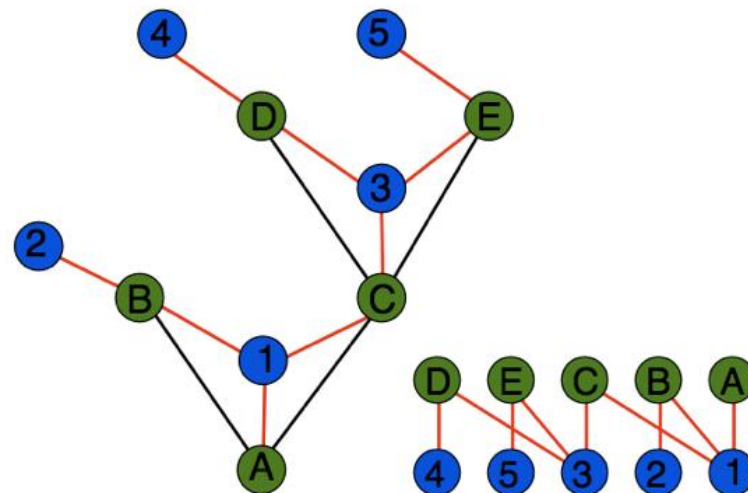
# Jeff Hirst

Professor of Mathematics, Appalachian State University

## Reverse Mathematics, Graphs, and Matchings

Henderson Auditorium, Quigley Hall  
Allegheny College  
Thursday, October 17, 2013, 4:00 pm

Abstract: How can we tell if two theorems are essentially the same? If we can prove that they are equivalent, then they are in some sense interchangeable. If our equivalence proof relies on a particularly small set of assumptions, then our claim of similarity is even stronger. This is the fundamental motivation of reverse mathematics, a program in the foundations of mathematics initiated by Harvey Friedman and Stephen Simpson. This talk will illustrate some techniques and results of the program.



Refreshments will be available after the talk.

Sponsored by the Department of Mathematics.  
Funded by the Leila Parsons Fund and the William Beazell Memorial Fund.

For more information, contact Harald Ellers at [hellers@allegheny.edu](mailto:hellers@allegheny.edu).

