

1116-VF-1262 **Peter Maceli*** (pmaceli@wesleyan.edu). *Structure of self-complementary graphs*. Preliminary report.

A graph is called self-complementary if it and its complement are isomorphic. The class of self-complementary graphs is structurally and algorithmically very rich, yet little is known about decomposing or explicitly constructing such graphs. In this talk, we will discuss a structural conjecture of Trotignon, as well as a number of general techniques for constructing self-complementary graphs. (Received September 18, 2015)