

## 2-nearly Platonic graphs

Jiangyi Qiu\*, University of Minnesota Duluth

Dalibor Froncek, University of Minnesota Duluth

A *2-nearly Platonic graph* of type  $(k, d)$  is a  $k$ -regular planar graph with all but two faces of the same degree  $d$ . W. Keith, D. Froncek, and D. Kreher conjectured that those two exceptional faces must have the same size. In this talk, we will show an outline of the proof.

Keywords: Platonic solids, Platonic graphs, planar graphs