

---

**DAVID RICHTER**, Western Michigan University

*How to draw a 4-edge-colored graph*

Define a “parallel drawing” of a  $d$ -edge-colored,  $d$ -regular graph a drawing in the plane such that (a) every vertex is represented by a point, (b) every edge is represented by a segment, and (c) the edges sharing a common color are parallel. The 3-edge-colored graphs which admit a faithful projective drawing were recently completely characterized. The purpose here is to explain the complications when one considers the corresponding problem for 4-edge-colored graphs.