Institut für Geometrie

Discrete Mathematics Seminar

Freitag 21.11.2014, 10:30

Seminarraum 2, Kopernikusgasse 24, 8010 Graz

Henneberg moves on mechanisms

Brigitte Servatius

(Worcester Polytecnic Institute)

A bar-and-joint framework in the plane with degree of freedom 1 is called a mechanism. It is well-known that the operations of 0-extension and 1-extension, the so called Henneberg moves, can always be performed on a framework so that its degree of freedom is preserved. It was conjectured that for a mechanism in generic position these operations can be performed without restricting its motion. We provide a counterexample (This is joint work with B. Jackson, T. Jordan, H. Servatius)

Otto Röschel, Johannes Wallner