1163-37-902 **David Krumm*** (dkrumm@reed.edu) and John R. Doyle. Classification of preperiodic portraits for quadratic polynomials over quadratic fields.

By a quadratic pair we mean a pair (K, c), where K is a quadratic number field and $c \in K$. To every such pair one can associate the directed graph G(K, c) whose vertices are the K-rational preperiodic points for the polynomial map $x \mapsto x^2 + c$. In this talk we discuss the problem of classifying all such graphs G(K, c) up to isomorphism. In particular, we describe a new result identifying all directed graphs which can occur as G(K, c) for infinitely many quadratic pairs (K, c). (Received September 14, 2020)