Bruck loops (also known as $K$-loops or gyrocommutative gyrogroups) capture algebraic properties of Einstein velocity addition. We present recent results on the classification of Bruck loops of order $pq$ and, more generally, on Bol loops of order $pq$. Most proofs are based on group-theoretical considerations in transitive groups. This is joint work with M. Kinyon and G. Nagy. (Received August 09, 2015)