Colin Adams* (cadams@williams.edu), Bronfman Science Center, 18 Hoxsey St., Williamstown, MA 01267. Multi-crossing number of knots and links.

The most fundamental approach to understanding knots and links is through their projections, where at each crossing, two strands intersect one another. Recently, this has been extended to consider multi-crossing projections, where more than two strands cross at each crossing. We can then define multi-crossing number to be the least number of n-crossings in an n-crossing projection of a knot or link. We will discuss what is known for multi-crossing numbers and the closely related petal number and ubercrossing number of knots and links and their relations to hyperbolic invariants. We will also discuss what is not known. (Received December 14, 2016)