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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 uber-crossing number of knots and links and their relations to hyperbolic invariants. We will also discuss what is not known. (Received December 14, 2016)