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Christopher Mandell* (christophermandell@mail.adelphi.edu), 3218 4th Street, Oceanside, NY 11572. *Polynomial approximations of parameterized knots*. Preliminary report.

Consider the image of a curve $k(t) = \langle x(t), y(t), z(t) \rangle$. We discuss an algorithm for approximating the original parametric equations based on images taken orthogonal to each of the coordinate planes. We proceed by sampling points along the curve, and discuss how the accuracy is affected by increasing the sampling near points of increased curvature. (Received September 14, 2012)