



Figure VII.22: Defining the Catmull-Rom spline segment from the point \mathbf{p}_i to the point \mathbf{p}_{i+1} . The points \mathbf{p}_i^- , \mathbf{p}_i , and \mathbf{p}_i^+ are collinear and parallel to $\mathbf{p}_{i+1} - \mathbf{p}_{i-1}$. The points \mathbf{p}_i , \mathbf{p}_i^+ , \mathbf{p}_{i+1}^- , and \mathbf{p}_{i+1} form the control points of a degree three Bézier curve, which is shown as a dotted curve.