
RICHARD FOURNIER, Dawson College and CRM

On an interpolation formula of Frappier, Rahman and Ruscheweyh

We shall give a new and most simple proof of an interpolation formula for polynomials due to Frappier, Rahman and Ruscheweyh (1985). This formula admits as a consequence a discrete refinement as well as an extension of Bernstein's famous inequality for the derivative of a polynomial of degree at most n .