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June Barrow-Green* (J.E.Barrow-Green@open.ac.uk), Faculty of Mathematics, The Open University, Walton Hall, Milton Keynes, MK7 6AA, England. *From cascades to calculus: episodes in the history of Rolle's theorem.*

Rolle's Theorem is an important result familiar to anyone who has moved just beyond elementary calculus to the beginnings of analysis. But when Michel Rolle first stated his theorem in 1690, it appeared not in the context of the calculus but of equation solving. In this talk I shall describe some episodes from the theorem's journey out of algebra and into analysis. (Received August 24, 2009)