

# AN INTRODUCTION TO $q$ -CALCULUS

Eric Werley

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The  $q$ -derivative operator applied to a function in one variable  $x$  produces a function in two variables  $x$  and  $q$ . This derivative is closely related to the usually derivative of calculus. In this talk we will discuss this relationship as well as the product rule, quotient rule, and chain rule for the  $q$ -derivative.