1023-33-386   **Mizan Rahman*** (`mrahman@math.carleton.ca`), School of Mathematics and Statistics, Carleton University, 1125 Colonel By Dr., Ottawa, Ontario K1S 5B6, Canada. *Green's function for the second order Askey-Wilson operator.* Preliminary report.

A Green's function for a hypergeometric difference equation on a q-quadratic lattice is obtained by using the method of variation of parameters, and Ismail and Rahman's(2002)formula for the inverse of an Askey-Wilson difference operator.Explicit formulas are given for the continuoius q-ultraspherical case.(Preliminary Report) (Received September 11, 2006)