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Samantha Dahlberg*, Department of Mathematics, Michigan State University C515, 619 Red Cedar Road, East Lansing, MI 48824. *Pattern Avoiding Involutions and the q -analogues for Binomial Coefficients*. Preliminary report.

In their seminal paper, Simion and Schmidt showed that the cardinality of the set of involutions in the symmetric group \mathfrak{S}_n which avoid the pattern 321 is a central binomial coefficient. We show that if one takes the generating function for the major index statistic over these involutions, then one obtains the usual q -analogue of this binomial coefficient. (Received January 19, 2015)