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Zachary Hamaker, Joel Lewis, Brendan Pawlowski and Bruce E Sagan*

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Let \mathfrak{S}_n denote the n th symmetric group. Given a set Π of permutations we let $\mathfrak{S}_n(\Pi)$ be all permutations in \mathfrak{S}_n which avoid all elements of Π . Following a suggestion of Woo, we consider the associated generating function defined by $Q_n(\Pi) = \sum_{\sigma \in \mathfrak{S}_n(\Pi)} F_{\text{Des } \sigma}$ where $\text{Des } \sigma$ is the descent set of σ and F is the associated fundamental quasisymmetric function. Some preliminary work on the subject was presented at the Eau Claire AMS meeting last year. In the present talk we will discuss new research on the subject, including a connection due to Adin and Roichman with representation theory. (Received July 15, 2015)