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*Science Fiction and Macdonald Polynomials*

In the 1998 paper "Science Fiction and Macdonald Polynomials" a variety of conjectures were formulated which are still unproven. Since these conjectures reveal some truly remarkable properties of the modified Macdonald basis, it is worth while to rekindle the interest in this topic. That paper predates Mark Haiman's proof of the  $n!$  Conjecture. In this talk we will present the results that have been recently obtained in our attempts to prove some of these conjectures.