

1135-05-1174      **Alex Happ\*** ([alex.happ@uky.edu](mailto:alex.happ@uky.edu)), University of Kentucky, 715 Patterson Office Tower,  
Lexington, KY 40506, and **Richard Ehrenborg**. *Sums of powers of the descent set statistic.*

We study the sum of the  $r$ th powers of the descent set statistic and how many small prime factors occur in these numbers. The results will depend upon the base  $p$  expansion of  $n$  and  $r$ . (Received September 20, 2017)