

1116-33-426

S Ole Warnaar* (o.warnaar@maths.uq.edu.au). *Discrete Macdonald–Mehta integrals.*

In 1982 Macdonald conjectured a Mehta-type integral for every finite reflection group. This was later proved by Opdam in the crystallographic case using hypergeometric shift operators, and by Garvan in the remaining exceptional cases H_3 and H_4 using computer algebra. In this talk I will discuss discrete analogues of the Macdonald–Mehta integrals for the reflection groups A_{r-1} , B_r and D_r , and how these are related to the enumeration of tableaux and non-intersecting lattice paths in combinatorics. (Received August 31, 2015)