

1009-05-153

Jorn Olsson and **Dennis Stanton*** (stanton@math.umn.edu), School of Mathematics,
University of Minnesota, 206 Church St SE, Minneapolis, MN 55455. *Block inclusions and cores of
partitions*. Preliminary report.

Necessary and sufficient conditions are given for an s -block of integer partitions to be contained in a t -block. The generating function for such partitions is found analytically, and also bijectively, using the notion of an (s, t) -abacus. The largest partition which is both an s -core and a t -core is explicitly given. (Received August 15, 2005)