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Jonathan S. Sheperd* (jsheperd@nd.edu). *Avoiding Colored Partitions of Two Elements.*

A k -colored partition of the ordered set $[n] := \{1, \dots, n\}$ consists of a partition of $[n]$ and an assignment of a color from $[k]$ to each element of $[n]$. A colored partition π avoids ρ if the partition component of π contains no copy of the partition component of ρ on which the color sequence is order-isomorphic to that of ρ . Here we expand upon the work of Goyt and Pudwell by counting the k -colored partitions of $[n]$ elements that avoid any set of colored partitions of 2 elements. (Received September 14, 2012)