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pattern poset

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Comments:The new version answers a question posed in the originalSubjects:Combinatorics (math.CO); Algebraic Topology (math.AT)MSC classes:06A11Cite as:arXiv:1107.3262 [math.CO](or arXiv:1107.3262v2 [math.CO] for this version)

(Submitted on 16 Jul 2011 (v1), last revised 6 Aug 2011 (this version, v2))

Discrete Morse theory and the consecutive

Bruce Sagan (Michigan State University), Robert Willenbring (University of Mary)

We use discrete Morse theory to provide another proof of Bernini, Ferrari, and Steingrimson's

determine the homotopy type of this poset. Earlier, Bjorner determined the Mobius function and homotopy type of factor order and the results are remarkably similar to those in the pattern case. In

his thesis, Willenbring used discrete Morse theory to give an illuminating proof of Bjorner's result.

Since our proof parallels Willenbring's, we also consider the relationship between the two posets.

formula for the Mobius function of the consecutive pattern poset. In addition, we are able to

Submission history

From: Bruce E. Sagan [view email] [v1] Sat, 16 Jul 2011 22:29:35 GMT (13kb) [v2] Sat, 6 Aug 2011 18:18:08 GMT (26kb)

Which authors of this paper are endorsers?

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