

to cyclic crystals

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Mathematics > Combinatorics

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Comments:minor revisions; to appear in IMRNSubjects:Combinatorics (math.CO); Quantum Algebra (math.QA)MSC classes:05E10, 06A11, 17B37, 20G42DOI:10.1093/imrn/rnr254Cite as:arXiv:1107.4073 [math.CO]

the \$\mathfrak{sl}_2\$ lowering operator in the theory of crystal bases.

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The quotient of a Boolean algebra by a cyclic group is proven to have a symmetric chain decomposition. This generalizes earlier work of Griggs, Killian and Savage on the case of prime

order, giving an explicit construction for any order, prime or composite. The combinatorial map

specifying how to proceed downward in a symmetric chain is shown to be a natural cyclic analogue of

(or arXiv:1107.4073v2 [math.CO] for this version)

Symmetric chain decomposition for cyclic

quotients of Boolean algebras and relation

Submission history

From: Patricia Hersh [view email] [v1] Wed, 20 Jul 2011 19:09:51 GMT (9kb) [v2] Thu, 1 Dec 2011 15:34:58 GMT (9kb)

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