CORRIGENDUM: A DEMAZURE CRYSTAL CONSTRUCTION FOR SCHUBERT POLYNOMIALS

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1. Introduction

We provide a corrigendum to our paper [3], which cites preprint [1] for various definitions and results in [3, Section 5.2]. Preprint [1] was withdrawn from the arXiv, hence we point here to the correct published citations for the definitions and results needed in [3].

2. Reference pointers for [3, Section 5.2]

Lift map: The lift map in [3, Section 5.2] needs to be replaced by the lift map in [4, Definition 4.22].

Drop map: The drop map in [3, Section 5.2] needs to be replaced by the drop map in [4, Definition 4.9].

Weak Edelman–Greene insertion:

- The definition [3, Definition 5.6] should cite [4, Definition 5.6]. The property that the column sorting map ϕ satisfies $\phi(\hat{Q}(\rho)) = Q(\rho)$, where ρ is a reduced expression, $\hat{Q}$ is the recording tableau of weak Edelman–Greene insertion and Q is the recording tableau of Edelman-Greene insertion follows from [4, Theorems 5.4 and 5.11]. The reference to [2, Theorem 3.24] in the proof of [4, Theorem 5.11] should be [2, Theorem 2.21].
- The result [3, Theorem 5.7] is [4, Corollary 5.12].
- The citation [1, Theorem 2.4] in the proof of [3, Corollary 5.8] is [4, Proposition 2.6].
- The result [3, Corollary 5.9] is [4, Corollary 4.24].

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References

[1] Sami Assaf. Combinatorial models for Schubert polynomials. arXiv:1703.00088. 1
[2] Sami Assaf. Weak dual equivalence for polynomials. *Ann. Comb.*, 26(3):571–591, 2022. 1
[3] Sami Assaf and Anne Schilling. A Demazure crystal construction for Schubert polynomials. *Algebr. Comb.*, 1(2):225–247, 2018. 1
[4] Sami H. Assaf. A generalization of Edelman-Greene insertion for Schubert polynomials. *Algebr. Comb.*, 4(2):359–385, 2021. 1

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