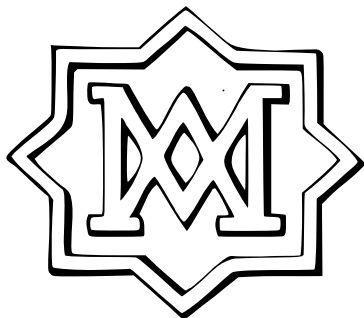


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Erratum to “The homotopy type of the matroid Grassmannian”

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In the proof of Proposition 4.5 of [1], the following argument is stated on page 948: “We now cover $\|S^+\|$ by two subsets, $\|S^+\| \setminus \|A\|$ and $\|B\|$. The intersection is $\|B\| \setminus \|A\|$ which is homotopy equivalent to $\|B\|$ by Proposition 2.6, and thus the inclusion $\|S^+\| \setminus \|A\| \hookrightarrow \|S^+\|$ induces a homotopy equivalence, and $\|S^+\|$ is therefore contractible.” This argument is incorrect. Here $\|S^+\|$ is covered by a contractible open set $O = \|S^+\| \setminus \|A\|$ and a closed set $C = \|B\|$ that is homotopy equivalent to $C \cap O$, but it does not follow that $\|S^+\|$ is contractible. This affects the proof of the main theorem, Theorem 1.1, which therefore remains a conjecture.

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References

- [1] D. K. BISS, *The homotopy type of the matroid Grassmannian*, *Ann. of Math.* **158** (2003), 929–952. MR 2005c:52021

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