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 $S^\ast$ by two subsets, $S^\ast \setminus A$ and $B$. The intersection is $B \setminus A$ which is homotopy equivalent to $B$ by Proposition 2.6, and thus the inclusion $S^\ast \setminus A \hookrightarrow S^\ast$ induces a homotopy equivalence, and $S^\ast$ is therefore contractible.” This argument is incorrect. Here $S^\ast$ is covered by a contractible open set $O = S^\ast \setminus A$ and a closed set $C = B$ that is homotopy equivalent to $C \cap O$, but it does not follow that $S^\ast$ is contractible. This affects the proof of the main theorem, Theorem 1.1, which therefore remains a conjecture.

Acknowledgment. The author would like to thank Nikolai Mnëv for drawing his attention to this error.

References


(Received November 8, 2008)

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