

**ERRATA:**  
**RINGS OF LOW RANK WITH A STANDARD INVOLUTION**

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This note gives errata for the article *Rings of low rank with a standard involution* [1].

- (1) Lemma 2.9: in the second sentence, Lemma 1.3 does not immediately imply that there is a basis  $1, x$  for  $S$ : it only says that  $S \simeq R \oplus S/R$ . This is not needed, however:  $S/R$  is itself locally free, so locally we still choose a generator for this summand. (It is, in fact, true that a free quadratic  $R$ -algebra has a basis including 1 [2, Lemma 3.2].)

Also, it is simpler to work directly with the affine cover of localization at distinguished opens, rather mixing localization at primes and at elements.

- (2) Corollary 3.2: In the second case where  $2 = 0$ , we have

$$R[x_1, \dots, x_n]/(x_1^2 - a_1, x_2^2 - a_2, \dots, x_n^2 - a_n)$$

with  $a_1, \dots, a_n \in R$ —this is what was proved in Proposition 3.1.

- (3) Proposition 4.10: One needs to take *isomorphism classes* of flags.

REFERENCES

- [1] John Voight, *Rings of low rank with a standard involution*, Illinois J. Math. **55** (2011), no. 3, 1135–1154.
- [2] John Voight, *Discriminants and the monoid of quadratic rings*, [arXiv:1504.05228](https://arxiv.org/abs/1504.05228), 13 January 2016.