

# ERRATA FOR “BORDISM FOR THE 2-GROUP SYMMETRIES OF THE HETEROTIC AND CHL STRINGS”

ARUN DEBRAY  
AUGUST 12, 2025

Theorem 2.90, which claims to compute the 2-primary CHL bordism groups in degrees 11 and below, is incorrect. The error is in the second paragraph of the proof, which used the comparison map  $MT\xi^{\text{CHL}} \rightarrow MTSpin \wedge BE_8$  to compute differentials, but this map does not see everything: there could be nonzero differentials whose images under this map vanish. And indeed, one can show that  $d_2: E_2^{0,4} \rightarrow E_2^{2,5}$  is an isomorphism.

This error does not affect much of the rest of the document. It does affect the following:

- (1) the discussion of the generators of CHL bordism at the end of §2.4.1,
- (2) the implications for the cobordism conjecture in §3.1.2, and
- (3) the implications for anomalies in §3.2.2.

Each of these is a brief discussion of some consequences of the bordism groups computed in Theorem 2.90, and nothing else in the paper depends on these discussions.

In the future, I plan to revisit this computation and write up a correct account.