

ERRATA OF THE DISSERTATION

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I found errors in my dissertation after the publication. It would be best to catch them before the publication. Alas, I was incautious about catching errors. Hence, I attach the list of errors in my dissertation. This list is not exhaustive, and there may be other errors.

Feel free to contact me if you find any suspicious parts in my dissertation.

- (1) p158–, Theorem 3.3.19: Its proof is incorrect. The main reason is that there is no guarantee that the dagger (that marks a formula) may not move to the precedent, and reside in the succedent forever. The new proof will be available in the upcoming version of [1].
- (2) p183, Definition of $\varrho_\alpha(\sigma)$:
 - $\bar{I}_\Phi(S^n 0)$ is an antecedent... $\rightarrow \bar{I}_\Phi(S^n 0)$ appears in an antecedent...
 - \bar{I}_Φ is a succedent... $\rightarrow \bar{I}_\Phi(S^n 0)$ appears in a succedent...(A new version of [1] presents a slightly different definition.)
- (3) p188. Proof of Proposition 3.5.1, The definition of $T(X)$.
 - (4): “For every $i, j < |f|$ ” \rightarrow “For every $i < j < |f|$ ”
 - (6): “For $i, j < |g|$ ” \rightarrow “For $i < j < |g|$ ”
- (4) p459, Example D.1.2: d has length 1, and not 0.

REFERENCES

- [1] Hanul Jeon. *Proof-theoretic dilator and intermediate pointclasses*. 2025. arXiv: 2501.11220.
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