

Refining Discrete Morse Functions

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August 26, 2020

1 Introduction

[[**XXX TODO:** put some sort of high-level introduction here.]] here is how you cite a figure (be sure to update the ref here ... and the label inside the figure

TO cite something, use [1].

2 Background

[[**XXX TODO:** discuss related work, and why you are qualified to work on this. Perhaps make subsections.]]

3 Methods

4 Collaboration with Faculty Sponsor

[[**XXX TODO:** Does the following apply? Report on Previous Research Experience (please save and upload this as a separate document): If you have done any previous research as an undergraduate you must include a 1-2 page (double-spaced) summary of your research results or creative products. Please note-if you have received funding from USP or INBRE your proposal will not be considered unless you complete this section.]]

References

- [1] FASY, B. T., LECCI, F., RINALDO, A., WASSERMAN, L., BALAKRISHNAN, S., AND SINGH, A.
Confidence sets for persistence diagrams. *Annals of Statistics* 42, 6 (2014), 2301–39. Preprint
available at [ArXiv:1303.7117](https://arxiv.org/abs/1303.7117).