Distinguishing between comsic strings and glitches using a neural network

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Abstract

Your abstract.

1 Introduction

The first detected gravitational wave (GW) signal was GW150914[1] in 2015. Since then many technological advancements have been made, yet one thing that still plagues detectors is the presence glitches. These are bursts of non-Gaussian noise that look like a signal .

1.1 Cosmic strings

1.2 Machine learning

2 Method

2.1 Data

2.2 Neural network structure

3 Results

3.1 Accuracy

3.2 Efficiency

4 Discussion

5 Conclusion

References

[1] B.P. Abbott et al. (LIGO Scientific Collaboration and Virgo Collaboration). Observation of gravitational waves from a binary black hole merger. *Phys. Rev. Lett.*, 116:061102, Feb 2016.