

Importance nested sampling with normalizing flows

(for gravitational-wave
inference)

Michael J. Williams, John
Veitch, Chris Messenger
arXiv:2302.08526



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Can we accelerate nested sampling with machine learning?



nessai

Nested sampling + normalizing flows

- + Improved sampling efficiency
- Limited by nested sampling design

Poster 38

Importance nested sampling with normalizing flows

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What if we design a nested sampling algorithm around normalizing flows?



i-nessai

Importance nested sampling +
normalizing flows



Addresses the main bottlenecks
Further improvements to sampling
efficiency

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