

Explainable Deep-learning: Monte Carlo methods for Gravitational-Wave Inference

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I. INTRODUCTION

A.

II. VITAMIN: USER-FRIENDLY INFERENCE

A. Structure

B. Training

C. Results

III. MONTE CARLO APPROACHES

A. Theoretical Framework

B. Methodology

1. *Likelihood Estimates*

2. *Rejection Sampling*

C. Results & Discussion

1. *Self-consistency*

2. *Reproducibility*

3. *Rejection Sampling*

IV. CONCLUSIONS

V. ACKNOWLEDGEMENTS
