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## **MENT-Flow: maximum entropy tomography using normalizing flows**

*Wednesday, 22 May 2024 16:00 (2 hours)*

Generative models can be trained to reproduce low-dimensional projections of high-dimensional phase space distributions. Normalizing flows are generative models that parameterize invertible transformations, allowing exact probability density evaluation and sampling. Consequently, flows are unbiased entropy estimators and could be used to solve the high-dimensional maximum-entropy tomography (MENT) problem. In this work, we evaluate a flow-based MENT solver (MENT-Flow) against exact maximum-entropy solutions and Minerbo's iterative MENT algorithm in two dimensions.

### **Footnotes**

### **Funding Agency**

### **Paper preparation format**

LaTeX

### **Region represented**

North America

**Primary author:** HOOVER, Austin (Oak Ridge National Laboratory)

**Presenter:** HOOVER, Austin (Oak Ridge National Laboratory)

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