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Machine learning for theories with fermions

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Machine learning can be used for generative methods that approximate PDFs corresponding to quantum field theories. To remove any bias an accept/reject step is required which for theories with fermions involve the calculation of the fermionic determinant. We investigate the use of pseudo-fermion methods for the accept/reject step to bypass the need to compute costly determinants. As an example we use the two dimensional Thirring model.

Presenter: ALEXANDRU, Andrei (The George Washington University)

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