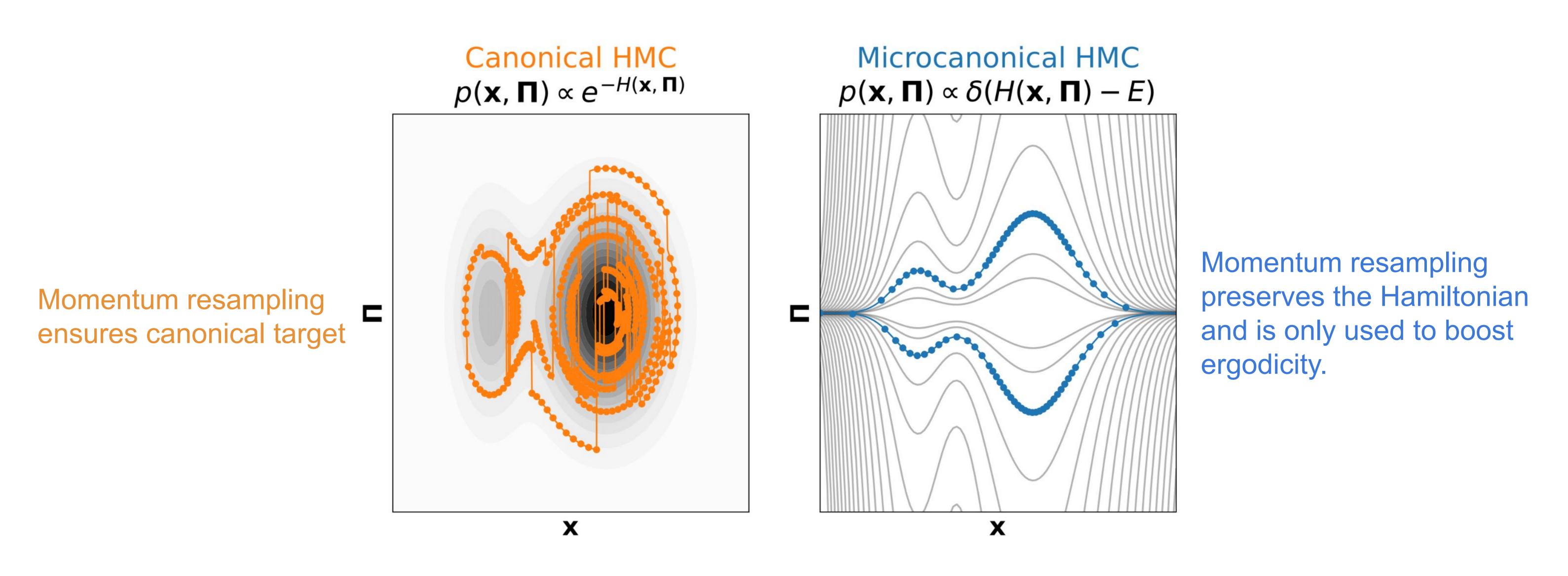
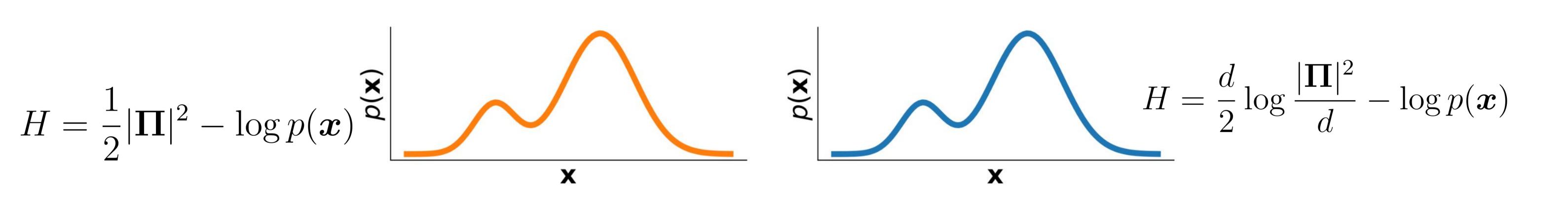
Problem: sample from a given differentiable distribution p(x) **Solution**: add momentum and use the Hamiltonian dynamics to efficiently sample the high-dimensional constant-energy-surface,



ensure the correct marginal x-distribution by tuning the Hamiltonian.



- Severalfold faster
 sampling in low dimensions
- Orders of magnitude faster
 sampling in high dimensions
- Automatic hyperparameter tuning
- Extremely fast burn-in
- Provable convergence
- Python (JAX), Julia and implementations

