

## **Weighted permutations on $\mathbb{Z}$**

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### **Abstract :**

We study the set of Gibbs measures on bijections in  $\mathbb{Z}$ , associated to a Hamiltonian that penalizes a permutation proportionally to its  $l^2$  distance to the identity. This problem was presented and solved by M. Biskup in the XIV EBP. We obtain these measures as the invariant distributions of a dynamics that we can perfectly simulate.

Joint work with P. Ferrari, P. Groisman and F. Leonardi