

# ParSplice Keyspace Locality

## 1 MOTIVATION

The PDSW about ParSplice [1] shows:

- (1) keyspace is structured
- (2) we don't need an unlimited cache
- (3) dynamic policy works for a while

The machine learning portion classifies read throughput into regimes. We could like the machine learning to detect the super-basins.

## 2 KEYSPEC LOCALITY

## 3 MACHINE LEARNING TECHNIQUES

- K-means
- DBScane
- online learning

## 4 IMPLEMENTATION

- HXHIM

## REFERENCES

- [1] Danny Perez, Ekin D Cubuk, Amos Waterland, Efthimios Kaxiras, and Arthur F Voter. Long-Time Dynamics Through Parallel Trajectory Splicing. *Journal of chemical theory and computation* (????).