

# DISTRIBUTED COMPUTATION OF PERSISTENT HOMOLOGY USING THE BLOWUP COMPLEX

**Dmitriy Morozov**

Lawrence Berkeley National Laboratory, USA

dmitriy@mrzv.org

This talk will describe an algorithm to distribute computation of persistent homology over multiple processors, by subdividing the domain into regions and combining the results using the Mayer-Vietoris blowup complex.

*Joint work with Ryan Lewis (Stanford University) and Gunnar Carlsson (Stanford University).*