

## Reduced Vietoris-Rips Complexes

Peter Goričan (6.12.2023)

In the seminar we will first define RNG graphs (relative neighborhood graphs), with the help of which we will prove some properties for Rips complexes, and then we will define a reduced Rips complex and show the connection with the Rips complex. Finally, we will look at the algorithm for computing one-dimensional persistent homology on reduced Rips complexes.