## 1163-55-939Radmila Sazdanovic\* (rsazdan@ncsu.edu), Department of Mathematics NC State University,<br/>PO Box 8205, Raleigh, NC 27695, and Javier Arsuaga, Gina Gonzalez and Arina Ushakova.<br/>Computational topology in cancer genomics.

Cancer is a polygenic disease in which genomic events are selected in order to produce a sophisticated and coordinated outcome. Determining when two events are co-occurring is an important open question in data science. This work focuses on addressing that question in breast cancer genomics by developing topology-based methods for analyzing how Copy Number Aberrations (CNAs) relate to the breast cancer types and prognosis. (Received September 14, 2020)