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Radmila Sazdanovic* (rsazdan@ncsu.edu), Department of Mathematics NC State University, PO Box 8205, Raleigh, NC 27695, and **Pawel Dlotko**. *Applied topology methods in knot theory*. Preliminary report.

A multitude of knot invariants, including quantum invariants and their categorifications, have been introduced to aid with characterizing and classifying knots and their topological properties. Relations between knot invariants and their relative strengths at distinguishing knots are still mostly elusive. We use Ball Mapper by P. Dlotko, exploratory data analysis technique that builds graph based landscapes of high dimensional data using a single parameter- radius, to examine the structure of data consisting of various knot invariants. Our focus is on the Jones and Alexander polynomial, as well as the signature with the goal of gaining deeper insights into the relations between these invariants and related conjectures. (Received September 17, 2019)