Low-dimensional topology

Over the last two decades, low-dimensional topology has moved from strength to strength. Many outstanding problems have been solved, including the Poincaré conjecture, the tameness conjecture, the ending lamination conjecture, detection of the smallest volume hyperbolic manifold, and many more. However, many problems remain unsolved, and the resolution of old problems has led to new questions regarding the overall structure low-dimensional manifolds. Powerful machinery developed in recent years will have many other uses, in widely different parts of the field.

The goal of this workshop is to create an opportunity for researchers in low-dimensional topology to encounter new research in the area, to establish new collaborations and reestablish existing ones, and to compensate for the relative isolation inflicted by the Covid-19 pandemic. One particular goal is to help researchers at earlier stages of their career to form connections, as these people were heavily affected by travel restrictions in 2020-21 and an inability to build networks. Together, junior and senior researchers will exchange techniques, attack outstanding conjectures, and develop new directions of study.