Abstract:
In differential geometry, one of the most important properties of a space is its curvature. For instance, the curvature of a space can tell you about its topology. In this talk we will introduce curvature from a few different points of view and look at some examples including surfaces and spheres. We will then see what we can learn about a space from its curvature, including some examples of spaces which are (almost) uniquely identified by their curvature.