## On the collection of complementary faces associated to the diagrams of a link (partially joint work with Colin C. Adams and Kokoro Tanaka)

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Abstract. Given a diagram of a link, one can ignore which strand is the overstrand at each crossing and think of it as a planar 4-valent graph embedded on the 2-sphere. This graph divides the sphere into n-gons, which we call faces. In this talk, we investigate the possibilities for the collection of complementary n-gon faces associated to the diagrams of a link.