

Algebraic links with 3-bridge presentations

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Abstract. An algebraic link is a link in the three sphere whose double branched covering is a graph manifold. In this talk, we give a classification of 3-bridge algebraic links and their 3-bridge presentations up to isotopy. We use genus-2 Heegaard splittings of graph manifolds to classify them. In particular, we focus on the relation between 3-bridge presentations for links and genus-2 Heegaard splittings of 3-manifolds, and show with an example how to distinguish two 3-bridge spheres up to isotopy.