COMPLETELY DISTINGUISHABLE PROJECTIONS OF SPATIAL GRAPHS

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A generic immersion of a finite graph into the plane with p double points is said to be a completely distinguishable projection (CDP) if any two of the 2^p spatial embeddings of the graph obtained from the immersion by giving over/under information to each double point are not ambient isotopic. This property is peculiar to spatial graphs, namely which is not appeared in knots and links. Moreover CDP also relates to the minimal crossing number of a finite graph, which is a basic and important topic on the border of topology, graph theory and computer science. In this talk, we will show some recent results about CDP and present two conjectures.

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