

Biquandle presentations of surface links from ch-diagrams

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Abstract. A biquandle is a set with four binary operations which satisfy some axioms corresponding to Reidemeister moves. A surface link is a closed oriented surface embedded in four-space. It is known that a biquandle gives an invariant for a surface link and any surface link is presented by a link diagram with some markers which is called a ch-diagram. The speaker gives a method that we directly calculate the biquandle of a surface link from a ch-diagram presenting the surface.