

Surface-links represented by 4-charts and quandle cocycle invariants II

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Abstract. In this talk, we study surface-links represented by 4-charts and their dihedral quandle cocycle invariants. As a consequence, we characterize 4-charts representing some surface-links including a 2-twist spun trefoil. We also prove that the braid index of a connected sum of a 2-twist spun trefoil and a spun trefoil is five, which is the answer to a special case of Tanaka's Problem.