

Strong S-equivalence of ordered links

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We will explore the relationship between S-equivalence of links (an algebraic equivalence relation) and the doubled-delta move (a geometric move on the link diagrams). Although Naik-Stanford proved in 1999 that S-equivalence is generated by the doubled-delta move for knots, the case of links requires a stronger condition. This motivates our definition of Strong S-equivalence. We will examine the relationship between Strong S-equivalence and the doubled-delta move, as well as discuss connections to the emerging field of clasper surgery.