ON 2-ADJACENCY RELATION OF TWO-BRIDGE KNOTS AND LINKS

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For two links L and L' in S^3, L is called *n-adjacent* to L', if L admits a diagram containing n generalized crossings such that changing any $0 < m \leq n$ of them yields a diagram of L'. In this talk, we give a necessary condition for a two-bridge knot/link $S(p, q)$ is 2-*adjacent* to another two-bridge knot/link $S(r, s)$. In particular, we show that (I) if the trivial knot/link is 2-adjacent to $S(p, q)$, then $S(p, q)$ is trivial (II) if $S(p, q)$ is 2-adjacent to its mirror image, then $S(p, q)$ is amphicheiral (III) for a prime integer p, if $S(p, q)$ is 2-adjacent to $S(r, s)$, then $S(p, q) = S(r, s)$ or $S(p, q) = S(1, 0)$.

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