C_k-concordance group of n-string links

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Abstract. The C_k-equivalence is an equivalence relation on n-string links which is genarated by C_k-move and concordance. The set of C_k-concordance classes of n-string links has a group structure. We decide when the quotient groups become abelian. In particular, we show that the C_9-concordance group of 2-string links is not abelian.