The generative power of weighted one-sided and regular sticker systems

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Abstract

Sticker systems were introduced in 1998 as a form of DNA computing models by using the recombination behaviour of DNA molecules. The Watson-Crick complementary principle of DNA molecules is by nature used in these systems to perform computation. In this paper, the generative power of one-sided sticker systems and weighted regular sticker systems are investigated. Moreover, the relationship between those models and classical genetic models is presented.

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