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ON A MATHEMATICAL MODEL OF RANDOM WALK OF PARTICLES ON A RING WITHOUT OVERTAKING

Abstract

In the paper it is proved that in the case of S particles and N points $(S < N)$, the second particle always performs a random binomial walk with parameters (r, l), it is constructed a contrary instance showing that by stationary condition of motion of particles $(S > 3,\ N \geq S + 2)$ on N selected and equidistant points of a circumference without overtaking, the fact on random walk of a separately taken particle doesn't hold.