

## Noise in Genotype Selection Model

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**Abstract:** We study the steady state properties of a genotype selection model in presence of correlated Gaussian white noise. The effect of the noise on the genotype selection model is discussed. It is found that correlated noise can break the balance of gene selection and induce the phase transition which can makes us select one type gene haploid from a gene group.

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Key words: genotype selection model, correlated noise, Fokker-Planck equation

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