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**Zygotic algebra for two linked loci with sexually different recombination rates.** (English)

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Bull. Math. Biol. 47, 771-782 (1985).

The author studies the properties of a zygotic algebra of two linked loci with different recombination rates in male and female gametes. The algebras obtained have some similarities to those obtained from sex linkage in that there are separate elements for male and female types.

However, the loci are autonormal, i.e., both sexes are diploid for the genes considered, thus the algebras are closely related to algebras obtained by duplication.

The main theorem says that such an algebra is a genetic algebra and it is a special train if and only if both recombination rates are 0.

Reviewer: H.Gonshor

**MSC:**

92D10 Genetics and epigenetics

17D92 Genetic algebras

Cited in **2** Reviews  
Cited in **3** Documents

**Keywords:**

random mating; genetic subalgebra; train roots; zygotic algebra of two linked loci; different recombination rates; duplication; genetic algebra

**Full Text:** [DOI](#)

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