MODELLING OF A SEXUAL POPULATION DYNAMICS

VLADAS SKAKAUSKAS[1] and SARUNAS REPSYS[2]

Vilnius University

24 Naugarduko, Vilnius LT-03225, Lithuania

E-mail: [1]`vladas.skakauskas@maf.vu.lt`, [2]`saaraas.omni@one.lt`

We consider a sex-age-structured population dynamics model taking into account females pregnancy, and child care. We assume that pairs exist only for period of mating. Each sex is divided into youngs (being under maternal care), juveniles, and adults. All adult females are divided into singles, fertilized, and taking maternal care of their youngs. Results of numerical investigation will be presented.

REFERENCES

[1] V. Skakauskas. Two population dynamics models with child care. *Informatica, Vilnius*, **11** (2), 2000, 195 - 218.