

Gael Raoul

UNIVERSITY OF CAMBRIDGE

e-mail: g.raoul@damp.cam.ac.uk

Structured population models for evolution

We are interested in an integro-differential model that describe the evolution of a population structured with respect to a continuous trait. Those model are able to capture various biological phenomena, and in particular the speciation process, that is the concentration of the population around a finite number of traits. We analyse this property, and relate it to other theoretical tool used by theoretical biologists. We are also able to analyse some cases pointed out by biologists, where the concentration phenomena does not occur.