



**University of
Zurich**^{UZH}

Department of Evolutionary Biology
and Environmental Studies

BEEES (Behavior, Ecology, Environment and Evolution Seminar)

Community structure and noise sensitivity

Speaker: **Dr. Antonio Ferrera, IEU**

Date/Time: Thursday, 2019-03-07
12:15 to 12:45

Place: Y03-G-95/UZH Irchel
Winterthurerstr. 190; 8057 Zürich

Access: only intern

Host: Prof. Dr. Jordi Bascompte

Abstract:

Summary: During the past decades a lot of effort has been devoted towards understanding the impact that perturbations, both in the dynamical variables (i.e., species abundances) and in its defining parameters (growth rates and structure of interspecies interactions), have on the stability of the equilibrium points in models of ecological communities. Despite all this work however we are still lacking a single coherent theory of ecological equilibria which may account at once for the most salient types of species interactions and provide us with a detailed understanding of their effects in community structure and its stability. This talk will present ongoing work towards building such a theory from first principles and rather simple assumptions.

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