

**VIALE HARVEST OF MONOTONE BIOECONOMICS MODELS:
PRESERVATION AND PRODUCTION ISSUES**

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The aim of this lecture is to show some applications of the viability theory, for discrete time dynamical systems, to an age structured abundance population model in fisheries management. We obtain necessary and sufficient conditions for levels of landings (catch, harvest) to be sustainable (independently of the current abundance) and, for a given vector of abundance (a state), we show how to compute the maximal sustainable catch starting from this state. All these tools could help to regulatory organisms in order to determinate and/or evaluate fishing quotas.

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