



ICMAT Seminar – 2015/2016

**Applied Probability, Statistics and Operations Research**

## **Bioeconomic modeling of seasonal fisheries: A reinterpretation of the equilibrium**

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Thursday, June 2, 2016  
11h00, *ICMAT, Aula Gris I*

Based on a discretization method of continuous-time bioeconomic models, we develop a discrete-time bioeconomic model to analyze seasonality in fisheries. We find that seasonal steady states equilibrium, each associated with each season, within an annual cycle are optimal in seasonal fisheries. We analyze the consequences of different degrees of economic protection of the stock (market conditions). We find that the danger of potential collapse increases if the economic protection is reduced. We analyze the consequences of implementing a seasonal TAC regulatory system based on the precautionary approach. We discuss socially optimal regulation issues raised by seasonality in fisheries.

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