



Dipartimento di Economia

Università degli Studi "G. d'Annunzio" di Chieti-Pescara
65127 PESCARA - V.le Pindaro, n. 42

Martedì 26 maggio 2015

alle ore 11.00

la professoressa

Maria Rita d'Orsogna

California State University at Northridge

terrà un seminario dal titolo:

MODELLI MATEMATICI DEL CRIMINE

presso il

Dipartimento di Economia

nell'Aula Seminari

della sede di

Viale della Pineta, 4

Pescara

Sunto:

Applying mathematical tools to criminology is a relatively new but promising and exciting avenue of research. In this talk we present several examples of mathematical models that have been introduced to frame and analyze basic sociological facts such as the theory of broken windows and repeat victimization. Our examples include agent based models and partial differential equations to study burglary and the spread of opportunistic crime, game theory to investigate the role of informants within a violent society, stochastic simulations to model recidivism and rehabilitation efforts, and network theory to study possible methods of dismantling a growing criminal network. Some of our results are confirmed by data and experimental realizations conducted on actual human subjects in a behavioral laboratory.
