Introduction to differential games
PhD Program in Mathematical Sciences

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Course contents
(12 hours)

• Recall of basic concepts of game theory, best response strategies, dominating strategies, Nash equilibrium
• Dynamic games: formalization of a differential game
• Simultaneous Noncooperative differential games (Nash equilibrium)
• Hierarchic differential games (Stackelberg equilibrium)

Course requirements
Basic notions of Differential equations and Optimal control
1. The lecturer will suggest a set of recent scientific publications on differential games
2. Each student will choose a paper among the suggested ones to read, comprehend and present in class


The Moodle Platform Sections

1. Feedback activities
2. Slides
3. Tablet Notes and recordings
4. Links