



## **SEMINAR**

# **“On the existence of equilibrium for Generalized Nash games: from Arrow-Debreu's result to now”**

*Prof. Didier Aussel  
University of Perpignan*

*Chair: Prof.ssa Rossana Riccardi  
University of Brescia*

**15<sup>th</sup> December 2021, h. 15:00**  
*Room B4 – S Chiara Building*

### **[Registration form here >>](#)**

The registration form is compulsory for all participants attending both in presence and remotely. For those in presence, a *QR Code to access the building will be sent by email.*

#### **ABSTRACT**

Generalized Nash games (GNEP) are non cooperative games in which the objective function and the strategy set of each player depend on the strategic decisions of the other players. And existence of equilibrium for such games has been proved by Arrow and Debreu in 1958 under some reasonable assumptions, namely quasiconcavity and continuity of the objective functions of the players. This result is extremely famous and found applications in many fields of applications. Nevertheless, the recent development of Multi-Leader-Follower games raised the need of existence results with lower semicontinuous objectives functions of the players. Our aim in this talks is to explain the reasons of this new "need" and to present recent existence results for GNEP.