Code B_2720

Department	Economics and Business Science
UniCa reference person	Beatrice Venturi
Project title in English	Economics implications in the Analysis of boundary Conditions of Optimal Control Models
Project title in Italian	Implicazioni economiche nell'analisi delle condizioni al bordo di modelli di controllo ottimali
Subject area of reference (World University Ranking)	BUSINESS AND ECONOMICS
Project summary and VPS' profile	The literature has extensively studied transient interior solutions and steady state solutions for constant capital growth and associated stability issues in Optimal Control Analysis. Unlike these studies we address boundary solutions, which are normally disregarded, for a class of Optimal Control Model, that represents an extencion of the classical Lucas Model. In particular, we are looking for a threshold condition when for a given level of technology and human capital there is not sufficient physical capital. This implies that an optimal path can contain a boundary solution of no consumption (i.e., only consumption for basic sustainability). Our goal is to determine if a policy like this can exist for a certain amount of time and without any training, thereby involving all human resources in the production of physical capital.
Proposed length of stay	Long visit of 1 month
Expected period of activity	September - October 2024
Academic position of the VPS'	Professor
Course of Study	Laurea triennale (1st cycle University Degree), Dottorato di ricerca (PhD Course)
Language of instruction	English