

Departmental Seminar July 11, 2022

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Title: **The granular origins of inflation**

Abstract:

Do large manufacturers, product categories, and products affect the inflationary process? In this paper, we show empirically that granularity features are important for understanding retail inflation dynamics in low-inflation environments and international inflation co-movement, and we trace along which dimensions it does so. We first develop a methodology to decompose aggregate retail inflation in an unweighted component and granular components for the category, manufacturer and product dimension. After showing the importance of each dimension for price setting at the firm level using a large disaggregated multi-country homescan data set spanning the years 2008 to 2020, we estimate the components and show that granular components contribute significantly to aggregate retail inflation in our data in low-inflation economies. Finally, we study the role of large manufacturers for inflation co-movement across countries: inflation in two countries could be correlated because the same large, multinational manufacturers sell their products in both countries. Our preliminary results show that inflation is more correlated in countries with a higher share of common manufacturers, suggesting that the presence of multinational manufacturers may also help to explain international inflation co-movement.