A Mechanism for the Household (Carlos E. da Costa, Lucas Lima)

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#### Main Results

- 1. A model of collective household behavior that allows comparing outcomes across various institutional settings.
- 2. Intra-household power distribution <u>doesn't matter</u> for revelation principle validity.
  - ▶ With a suitable definition of spousal types, the revelation principle is valid.
- 3. Intra-household power distribution <u>matters</u> for taxation principle validity.
  - ▶ Unless no changes in environment that occur after marriage affect the intra-household power distribution, the taxation principle doesn't hold.

#### Environment

Economy populated by a continuum of individuals who are either married or single. Life cycle:

- 1. Marriage market that delivers equilibrium distributions of couples and singles.
- 2. Individuals make transactions, decide how to combine acquired goods with endowment to produce goods, and decide how to share these goods within household.

**Key:** Nash bargaining + threat points can be affected by changes in environment after marriage.

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Two sources: (i) individual types (known by singles and spouses only) and (ii) allocation of goods within couples (known by spouses only).

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 $\checkmark$  Revelation Principle ( $\Rightarrow$  Characterization of Incentive-Feasible Allocations)

If a married person's <u>type</u> is given by (i) own productivity, (ii) spousal productivity, and (iii) whether the spouses are in agreement or not, then the revelation principle is valid.

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 $\times$  Taxation Principle ( $\Rightarrow$  Decentralization of IF Allocations)

Fails unless the distribution of bargaining power is fully determined at the marriage stage.

Before reading this paper, I knew just a few studies that combine Mirrleesian framework and collective approach off the top of my head (+ Alves, da Costa, Lobel, Moreira, 2021).

- ▶ Immervoll, Kleven, Kreiner, Verdelin ('11), Cremer, Lozachmeur, Maldonado, Roeder ('16).
- ▶ IKKV (2011): extensive-extensive model; CLMR (2016): intensive-intensive model.
- ▶ IKKV (2011): W/o income effects on labor supply, similar optimal tax rules under unitary and collective approaches (w/ income effects, additional Pigouvian term).
- ▶ CLMR (2016): Optimal MTR includes Pigouvian (corrects for a difference in social and private welfare) & incentive (depends on weight structure across couples) terms.

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Multidimensional screening problem.

- Challenging task (first-order approach can fail).
- ▶ Frankel (2014), Moser and Olea de Souza e Silva (2019), Malkov (2020).
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Do policy implications change? Tax spouses jointly or separately? Optimal progressivity? Taxes+Marriage/Commitment: Divorce-law changes (Reynoso, 2019) & optimal taxation?

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- ▶ In the 1950s-2010s, the decline of marriage coincided with a rise in cohabitation in the United States (Lundberg, Pollak, and Stearns, 2016).
- ▶ Cohabiting couples: Other threat points, other (?) distribution of power.
- ▶ In the U.S., it matters for the tax schedule whether a couple is married or cohabiting.

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Scope for other policy implications.

- ▶ E.g., partnerships.
- ▶ Full commitment assumption looks more justifiable in this case.