
结

2004- 2017 14
2004 MIde & Riley 1988 Anjini Kochar 1997 Fdtz
2016 2009 2010
2016 2003 2014
2016

2017M611787 15YJC790054
SKTS2017023 71403116
24

Hoff & Stiglitz 1997 Mhieldin & Wright

2000

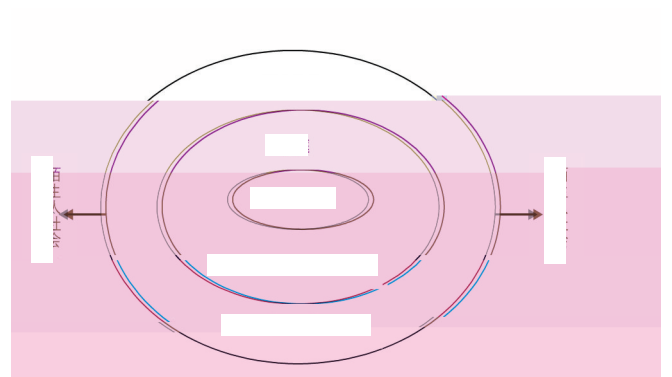
2016

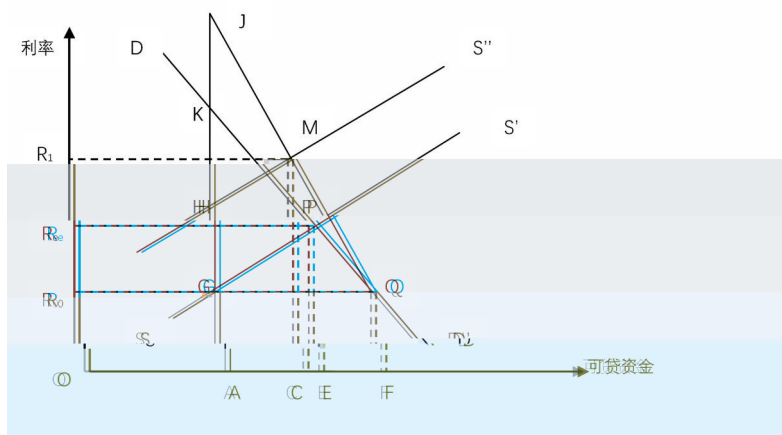
S.Popkin 1979

2002

2003

1949-1976





$$J_M(\hat{t}) = \{J_1(\hat{t}) \quad J_M(\hat{t})\} \quad 6$$

$$M \quad K_M(\hat{t}) \quad i$$

$$K_M(\hat{t}) = \sum_{i=1}^N \mathbb{1}_{\{\hat{t} \in J_M(i)\}} \quad 7$$

match

$$Y_i(\mathbb{O}) = \begin{cases} Y_i & W_i = 0 \\ \frac{1}{M} \sum_{j \in J_M(\mathbb{O})} Y_j & W_i = 1 \end{cases} \quad 8$$

$$Y_i(\mathbb{I}) = \begin{cases} \frac{1}{M} \sum_{j \in J_M(\mathbb{I})} Y_j & W_i = 0 \\ Y_i & W_i = 1 \end{cases} \quad 9$$

$$\tau_M^{sm} = \frac{1}{N} \sum_{i=1}^N (Y_i(\mathbb{I}) - Y_i(\mathbb{O})) = \frac{1}{N} \sum_{i=1}^N (2W_i - 1) \left(1 + \frac{K_M(\hat{t})}{M}\right) \cdot Y_i \quad 10$$

$$\tau_M^{sm,t} = \frac{1}{N_{1W_i=1}} \sum_{i=1}^N (Y_i - Y_i(\mathbb{O})) = \frac{1}{N_{1W_i=1}} \sum_{i=1}^N W_i - (1 - W_i) \frac{K_M(\hat{t})}{M} \cdot Y_i \quad 11$$

match.

Abadie Imbens 2004 2006

match

[1]

$$u_w(X_i) \quad u_w(X_i) \quad W_i = 0$$

$$Y_i(\mathbb{O}) = \begin{cases} Y_i & W_i = 0 \\ \frac{1}{M} \sum_{j \in J_M(\mathbb{O})} Y_j + u_0(X_i) - u_0(X_j) & W_i = 1 \end{cases} \quad 12$$

$$Y_i(\mathbb{I}) = \begin{cases} \frac{1}{M} \sum_{j \in J_M(\mathbb{I})} Y_j + u_1(X_i) - u_1(X_j) & W_i = 0 \\ Y_i & W_i = 1 \end{cases} \quad 13$$

$$\tau_M^{bcm} = \frac{1}{N} \sum_{i=1}^N (Y_i(\mathbb{I}) - Y_i(\mathbb{O})) \quad 14$$

$$\tau_M^{bcm,t} = \frac{1}{N_{W_i=1}} \sum_{i=1}^N (Y_i - Y_i(\mathbb{O})) \quad 15$$

Y X

1

[1] Abadie Imbens 2004 2006

match

