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The Revival of Classical Theory of Values

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§ 1. Introduction

My intension and core propositionsWhat we have to abandon.

The Themes of the Conference

English Session: Political Economy Now: Challenges to the Orthodoxy
We are all asked what kind of challenge we have in mind.
My theme: What will be the theory which can rival the mainstream?

My main proposition:

• The core of the economic theory

Theory of value (price theory)

- Mainstream: neoclassical theory of value
 - various variations: Jevons, Marshall, Walras
 - Modern form: General Equilibrium Theory (GET)
 - Actual dominant fashion: DSGE (Dynamic Stochastic General Equilibrium model)

Rival theory

classical theory of value (a theory which can rival the mainstream)

combine Keynes' idea with classical theory of value

What is classical theory of value?

- Iabor theory of value? No.
- •substance theory of value? No.
- It is the production theory of value.
 - relation theory (no substance in exchange)
 - difficulty lies in circularity of the definition
 - cost calculated by prices
- a system of simultaneous equations
 Not like Jevons or Walras

Strong conservative tendencies:

Marxian economists:

- Marxian orthodoxy
 - Catechisms, Text interpretation, Ideological criticism
 - Theological hermeneutics, metaphysical
- Two breakthroughs in Japan: Uno & Okishio

tried to transform Marxian economics into a science

A lack of challenge and innovation

C.A. prevents counterattacks:

Admit weak and wrong points:

- subsistence wage theory (social and cultural)
- wage fund theory (J.S. Mill's time)
- Iabor theory of value (narrow interpretation)

wide int.: labor is the origin of value

Interview int.: exchange value is proportional to embodied amount of labor

Discard them and don't be defensive!

In a defensive battle in theories: sure to lose

History of economics since Smith

Two competing paradigms Classical vs. Neoclassical economics Neoclassical economics main stream, general equilibrium, ect. Classical economics? theories to be discarded wage fund theory, subsistence wage, ect. the core: classical theory of value

§ 2. Classical theory of value

•Two problems Ricardo left

- theory of (domestic) values
- theory of international values

Present situation of the theories

Ricardo's two problems left

Ricardo: (my appraisal)

- Economics became a theory science.
- Theory: a system of concepts and a few sets of propositions by which to explain various phenomena logically (mathematically)

What Ricardo could not succeed:

- RP I: Value theory in a (isolated) country
- RP II: International theory of value

Ricardo problem I:

- Problem: Formulate a classical theory of value
- Almost solved by Sraffa (1960)
 - + OERG's Survey (1930's) +Sraffa(1926)

Still developing

- Prices: determined by the full cost principle.
- Supply behavior (of firms): supply as much as demanded at the fixed product price (Sraffa, 1926)
- Minimal value theorem (Samuelson, 1951; See later)
- Demand factors in price decision: Target cost (designing)

Characteristics of the classical theories of value

- Lack of demand theory?
- No! Constant prices in spite of demand change.
 - Supply changes according to demand.
 - See minimal value theorem (Samuelson's nonsubstitution theorem).
 - Choice of techniques not apparent

 Internal logic which make possible full cost pricing! (logic under the phenomenon)



Ricardo problem II

- Classical theory of value was not applicable to international trade situation.
- Ricardo problem II. Construct a theory of international values!
- This was (and is) important.
 - Largest weak point of the classical value theory.
- Young Mill tried to fill in the blanks and find a "solution." This "solution" determined the future of the economics.

J.S. Mill's "solution"

Mill's situation setting

- 2 country, 2 commodity case
- two countries enjoy gains from trade.
- Are these assumptions innocent? No!

Complete specialization.

- If labor power is given, the amount of product produced is determined.
- Equivalent to exchange situation of two predetermined goods.





New theory of international values

- Formal formulation: Shiozawa (2014)
 - Research works from 1985 to EIER (2007)

Applicable to situations

- M-country, N-commodity
- Material inputs
- Choice of techniques
- Input trade (intermediate goods)
- Transport costs

Fundamental Theorem

- Suppose a Ricardo-Sraffa trade economy (L, A, I; q). If the world final demand d is in a regular domain, ∃₁ v = (w, p) (up to scalar multiplication) and s such that
- (1) s(I-A) = d (supply & demand equality) (2) s L = q (labor is fully utilized)
- (3) $L w + A p \ge p$ (profitability)
- (4) $\langle \mathbf{q}, \mathbf{w} \rangle = \langle \mathbf{d}, \mathbf{p} \rangle$ (income circulation)

Some results of the theory

Constant values in a regular domain National wage differentials explained Provides a tool to analyze Fragmentation, Global sourcing — input trade

§ 3. Neoclassical revolution

My contention: Mill's "solution" paved the way to neoclassical revolution
Main point: why did economics turn from economics of production to economics of exchange. How did the neoclassical revolution happen?

- The neoclassical revolution (1870's)
 - utility revolution?
 - marginal revolution?
 - conversion from the economics of production to the economics of exchange
- •Why did this conversion occur?
 - many explanations
 - externalist vs. internalist

An internalist explanation

Intellectual Situation after Ricardo

- Two weak points for classical theory of value
- Logical weakness of labor theory of value
 - 1st Rectification Problem I
- Lack of international value theory
 - → 2nd Rectification Problem

•J.S. Mill thought succeeded, but...

It was a false solution. Why? I will explain.
Its impacts was strong. Changed economics







English share of world labor

No price adjustment

What happens on a point of a ridge?

Price moves but its movement is perpendicular to the ridge. The production remains constant.

Pure exchange economy

Production is given. Preferences may change prices. Distribution (in real income) changes.

This is only a variant John S. Mill had set.

Why is Mill's "solution" misleading?

Extreme point

- M-country, N-commodity model
- Consider the case M>N.
 - No internal edge (positive extreme point)
 - Mill-Jones point exists only when $M \leq N$.
- No price adjustment (see above).
- Essentially an exchange economy
 - Quantities and items produced are fixed.
 - Given endowments, fix prices!

Impacts of Mill's "solution"

Impact on Mill's economics

- admitted laws of demand and supply as "anterior" and "more fundamental" than the cost of production
- half way to neoclassical economics
- Impact on neoclassical fathers
 - Jevons, Marshall, and Edgeworth
 - Works in trade theory, works in value theory
- Paved way to the neoclassical revolution
 conversion from e. of production to e. of exchange

Neoclassical fathers (in GB):

• Jevons:

Apparently hostile to J.S. Mill

Exchange problem, the concept "trading body"

Marshall:

- witnesses that he studied Mill's problem 1870's.
- "reciprocal demand" and "demand function"
 - Marshallian cross emerged in the s. of the "Pure theory of Foreign Trade." (1879)

• Edgeworth:

Box diagram, pure exchange problem

§ 4. Neoclassical vs. classical

 crucial difference between neoclassical theory of value and classical theory of value

 fallacy of the law of demand and supply

Law of Demand and supply

• Mill's conclusion:

- Since cost of production here fails us, we must revert to a law of value anterior to cost of production, and more fundamental, the law of demand and supply. (*Principles* III.16.5, Similar expression in Mill (1844))
- This is what Ricardo rejected (*Principles* Chap. 30).

Crucial opposition:

- J: Final utility determines demand.
- CE: At the natural price (or value) supply is adjusted to the amount of demand. Quantity of the demand does not determine the price.

Adjustment: price vs. quantity

- N.E. focused on price adjustment.
- C.E. focused on quantity adjustment.
- Classical theory today must explain:
 - why some commodities are more prone to be price adjusted.
 - how the quantity adjustment can evolve with myopic agents?
 - See our book: Shiozawa and Aruka (2014).

A Remark: not a long term theory

- Kurz and Salvatori emphasize that classical theory of value is a long term theory.
- It is but we need short term theory also.
 Necessary to construct a short term theory on the classical tradition.
- Markup pricing is important, for it determines actual price of a commodity.

§ 5. Tasks for challenge

- I only illustrate two examples:
 - Construct and develop a classical theory of value
 - Keynes's idea on the basis of classical theory of value

Classical theory of value in the future

- There are at least two domains where new theories are required:
 - theory of wages
 - price theory in financial economy

Labor market and wages

 The cost of production theory of value does not hold.

 If labor force is uniform and freely movable, the classical theory holds.

How about in other cases?

Financial economy

- Distinction between *real economy* and *financial economy* is important.
- In financial economy, the cost concept is vague. Cost of production theory of value does not apply directly.
- Law of demand and supply?
 - It partly explains the movement of prices.
 - Systemic instabilities are built in.
- Must study speculation and mutual interactions.

Effective demand on the basis of classical theory of value

- Keynes' idea of effective demand is still valid.
- It cannot be well defined in the framework of GET.
- An open possibility is to reconstruct Keynes' idea on the basis of the classical theory of value.

§ 6. Conclusion

Ricardo left two problems and they are resolved in 20th and 21st century. It can be now a full titled rival to the neoclassical theory (or GET). Classical theory of value is still developing. A new challenge is waiting for you.

Correspondence:

 For the details, read my paper prepared for this session.

- Two books in Japanese:
 - My Final solution of Ricardo's problem on international values 2014 リカード貿易理論の最終解決
 - Our Reconstruction Economics 2014 経済学を再 建する

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