## Modern Economics as a Would-be Science\*

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Since market-economic theory lacks predictive reliability, it is not scientific like physics. Nor has it ever really been "positive" like physics and chemistry. To become truly scientific, economic theory has to consider in detail the exosomatic physical aspects, including the ecological ones, of human activity, while medical science deals with the endosomatic physical aspects of the human organism.

The Earth is not, however, an organism (nor indeed is a market), and therefore, preserving wilderness will not suffice to solve the  $21^{st}$ -century problems caused by ecological degradation. Technological maintenance will also be required – and prudence when facing high-stakes risks in regard to which there is baffling scientific uncertainty. Some historical background to these theoretical points is given here.

Is market-economic theory scientific like physics? Many academic economists, especially those who liked to write algebraic equations, have thought so.<sup>1</sup> Opinions as to the extent to which it *can* be like a natural science were expressed in the German academic *Methodenstreit* of the late 19<sup>th</sup> and early 20<sup>th</sup> centuries.<sup>2</sup>

<sup>&</sup>lt;sup>\*</sup> Text of Kunda Datar Memorial Lecture delivered by Dr. Mark Lindley (Visiting Professor at Gujarat Vidyapith) at the Gokhale Institute of Politics and Economics, Pune, on March 22, 2013. Email: mirabene@yahoo.com.

For a survey of evidence that 20th-century economists suffered from physics-envy, *see* Philip Mirowski, *More Heat than Light: Economics as Social Physics, Physics as Nature's Economics* (Cambridge University Press, 1989).

<sup>2. &</sup>quot;Streit" (cognate with "strive") means "struggle." The categorical distinction in the *Methodenstreit* debate was between the *Naturwissenschaften* – the natural sciences – and the *Geisteswissenschaften*. "Wissen" (cognate with "wise") is a verb meaning "to know" something objectively (whereas "kennen" means to be familiar with it subjectively); the suffix "-schaft" converts the word into a noun; the suffix "-en" makes it plural. "Geist" (cognate with "ghost") means "spirit". The Geisteswissenschaften would include theology, linguistics, history, psychology and so on, as well as sociology and market economics.