

"Non-reductive Realism in a Pluralistic World", Towfic Shomar, The Arabic Philosophical Magazine, V. 6, no. 12, 2000.

Abstract

All sciences used to take theories in Physics as their exemplar. Perhaps reductionism and the received view in philosophy of science are to be blamed. Reductionism asserts that all sciences ought to be based on, if not reduced to, physics. Recent developments in physics forced physicists (theoretical and experimental) to believe that our best fundamental theories are not able to explain some of the phenomena in the accepted domains of these theories. Hence, the new theoretical representations in physics lack being "fundamental" in the received view sense. This leaves us with the question: In view of these developments in physics, what ought to be the status of other branches of science? This paper tries to give an answer to this question.