

TOPIC OF A COMPETITION PROMOTING STUDENT ENGAGEMENT IN SCIENTIFIC ACTIVITIES

Topic: Hegel and current technological education, mathematics, physics
Goal: To review literature that compares Hegelian ontology to current natural scientific ontology
Short description (max. 2000 characters): How fundamental concepts of modern topology can be understood philosophically using Hegel's <i>Logic</i> ? How can it be combined with quantum physics? How do empirical science approaches fit into the Hegelian network? How can Hegel's dialectical logic be revisited in relation to technoscience? Have idealist approaches anticipated the changes of ontological approaches in physics? What is the analogy between Hegel's notion of "aether" and the modern conception of physics? (" <i>The Notion of 'Aether': Hegel versus Contemporary Physics</i> " (Stefan Gruner & Bartelmann). Or are these approaches an oversimplification of both Hegel and physics? There have recently been some research done with respect to the relation of Hegel's philosophy to current mathematics and physics. The work consists in reviewing and summarizing some of that literature as well as engaging critically with the notions.
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