

Galileo' s Experiments with Pendulums: Then and Now

Palmieri, Paolo (2007) Galileo' s Experiments with Pendulums: Then and Now. In *[2007] &HPS1: Integrated History and Philosophy of Science 1*.

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Abstract

To explore Galileo' s innovative methodology, I have repeated most of his path-breaking experiments with pendulums; I have investigated the robustness of pendulum effects, otherwise difficult to capture, with computer simulations; and I have repeated crucial calculations done by Galileo. In this paper, I will relate the discoveries that I made, and emphasize their significance for our understanding of Galileo' s innovative methodology.

Keywords: Galileo, experiments, pendulum, models

Subjects: [General Issues: Experimentation](#)

Conferences and Volumes: [\[2007\] &HPS1: Integrated History and Philosophy of Science 1](#)

ID Code: 3549

Deposited By: [Palmieri, Paolo](#)

Deposited On: 26 September 2007