

INVESTIGATION OF CHAOS IN THREE COUPLED PHYSICAL PENDULUMS

J. Awrejcewicz and G. Kudra

Technical University of Lodz, Department of Automatics and Biomechanics,

1/15 Stefanowskiego St., 90-924 Łódź, Poland

e-mail: awrejcew@ck-sg.p.lodz.pl and grekudra@ck-sg.p.lodz.pl

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Summary. A triple pendulum (rotating around a vertical axis with the frequency ω) oscillations without damping are investigated analytically and numerically. It has been shown, among others, that there occur mainly chaotic and quasi-periodic oscillations and is rather difficult to find periodic oscillations. The potential as well as the equilibrium configurations in relation to ω are illustrated and discussed.