



GASTVORTRAG

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*Polynomial Cointegration Tests of the Anthropogenic Theory
of Global Warming*

30 September 2009

16.00 Uhr

Raum 23

Spandauer Straße 1

Alle Interessent(inn)en sind herzlich eingeladen

Abstract: The case that global warming in the 20th century is largely due to carbon emissions has almost exclusively been informed by simulating calibrated general circulation models of climate change. Since 1997 climatologists have reached similar conclusions using the methodology of cointegration. We show that since 1850 the radiative forcings of greenhouse gases are I(2) variables whereas global temperature and solar irradiance are I(1) variables. Normally I(2) and I(1) variables cannot be related unless they happen to be polynomially cointegrated. We carry out polynomial cointegration tests, which show that there is no long-term relationship between carbon dioxide and other greenhouse gases. However, there is a short-term relationship, which implies that carbon emissions have only a temporary effect on global temperature. The main cause of global warming in the 20th century is the increase in solar irradiance; the sun is simply hotter. This implies that carbon abatement policies will make no permanent difference to global temperature.