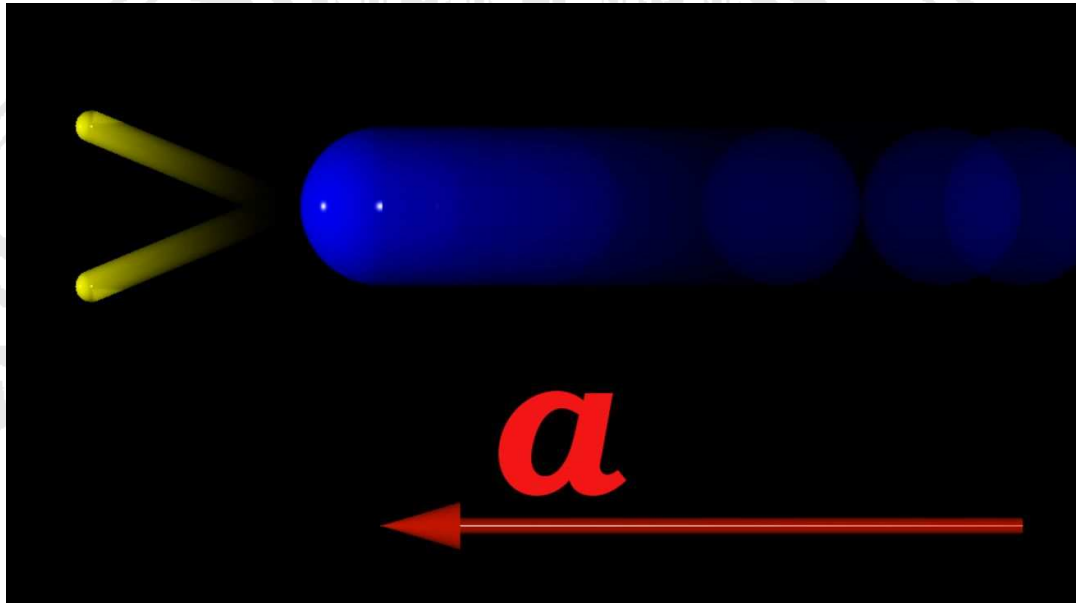


PHYSIKALISCHES KOLLOQUIUM

AM 16. JULI 2012 UM 17 UHR C.T.

IM GROßEN HÖRSAAL



FUNDAMENTAL QUANTUM EFFECTS IN THE LABORATORY?

PROF. DR. RALF SCHÜTZHOLD

FAKULTÄT FÜR PHYSIK

UNIVERSITÄT DUISBURG-ESSEN

There are several fundamental predictions of quantum field theory which have so far eluded an experimental observation, such as the Sauter-Schwinger effect, cosmological particle creation, Hawking radiation, or the Unruh effect etc. This talk will discuss prospects and obstacles for studying signatures or analogues of such effects in the laboratory.