

PHYSIKALISCHES KOLLOQUIUM

AM 27. OKTOBER 2014 UM 17 UHR C.T.

IM GROßEN HÖRSAAL

THE SECRET LIFE OF CLOUDS – LABORATORY STUDIES ON CLOUD MICROPHYSICS

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Clouds and their feedbacks in the climate system represent the largest source of uncertainty in our ability to predict future climate. This is largely due the large variability in clouds, spanning many orders of magnitude from the micrometer to the kilometer scale.

In this talk, laboratory studies on the smallest cloud scale of single droplets or ice particles are presented and the influence of the observed processes on the larger scales is discussed.

A focus will be on freezing processes occurring in a variety of clouds ranging from tropospheric to stratospheric and mesospheric cloud types.

