PTC² - Das physikalisch-theoretisch-chemische Colloquium

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Montag, den 12.06.2017— 17.15 Uhr
Gebäude 52 — Hörsaal 206

Studies on reactivity of metal clusters and cluster-cluster collisions

Adsorption of molecules onto metal clusters and the reactions of the adsorbed molecules have attracted much interest since they are considered as primitive models of nano-catalysts. For example, we have examined redox reactions on copper cluster ions, and found that a foreign-atom doping improve the adsorption probability and the reactivity of the adsorbed molecules remarkably. In order to elucidate the mechanism, it is important to analyze the geometric structures of the adsorbed molecules, and we have a plan to measure infrared spectra of a metal cluster in a helium cluster. Recently we have developed a technique to form these cluster complexes by using low-energy collisions between clusters.

gez. Markus Gerhards
Gereon Niedner-Schatteburg
Christoph Riehn
Christoph van Wüllen