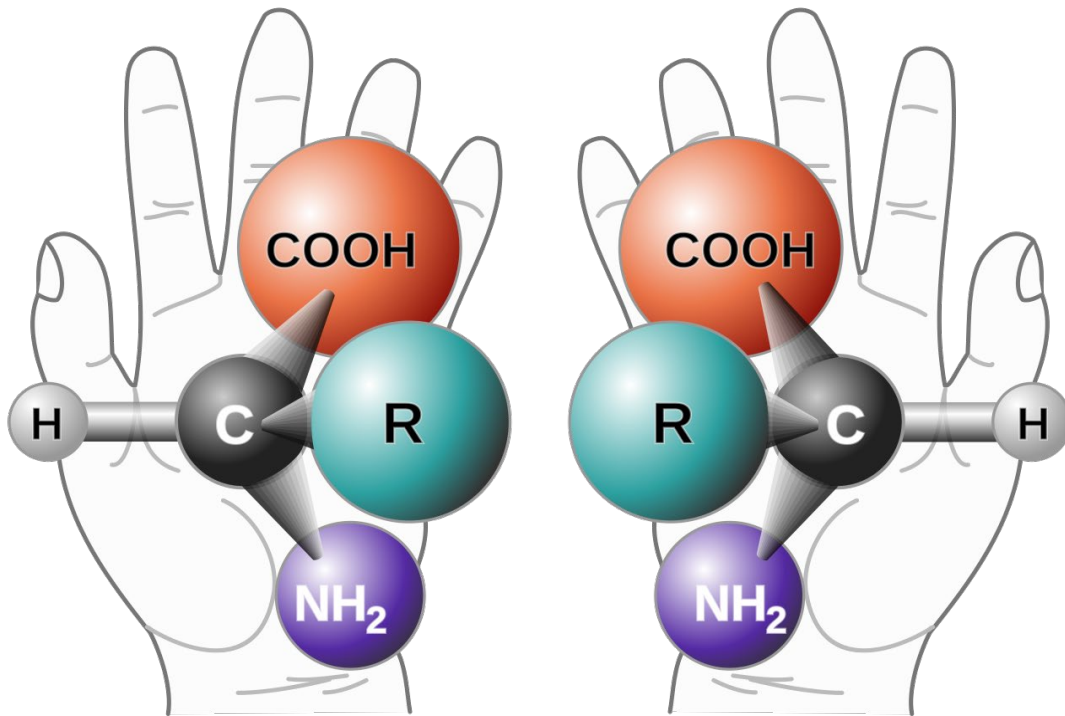


PHYSIKALISCHES KOLLOQUIUM

AM 04. NOVEMBER 2024 UM 17 UHR C.T.
IM GROßEN HÖRSAAL



MOLECULAR CHIRALITY – DOES IT MATTER?

LUKAS BRUDER

UNIVERSITÄT FREIBURG

Molecular chirality is ubiquitous in nature and plays an important role in chemistry and biology, for instance in enzymic reactions, in pharmaceuticals and even in the question about the origin of life. Chiral molecules are characterized by the fact, that the molecules cannot be superposed onto their mirror image. You may compare this to your left and right hand, two objects that cannot be superposed but are otherwise identical (Fig.1). Likewise, the two mirror images (enantiomers) of chiral molecules have basically identical physical properties. However surprisingly, their chemical activity can differ strongly, which is the origin for their importance in nature. This makes these objects both very interesting and very challenging to study. In my talk I will give a basic introduction into these interesting objects from a physics point of view.

AKTUELLE INFORMATIONEN FINDEN SIE HIER: WWW.PHYSIK.UNI-FREIBURG.DE