## Plasma complexity—other aspects

## Ralf-Peter Brinkmann

 $Ruhr\ University\ Bochum$ 

The term "complex plasma" is generally taken to by a synonym for "dusty plasmas", i.e., for plasmas which contain colloid nanoscopic or microscopic particles. In the last decades, much theoretical, experimental, and modeling effort has been spent towards an understanding if the unique properties of such plasmas. A focus was placed on the stability, dynamics, and self-organization of the colloid particles and their associations. However, there are also other ways in which plasmas can be complex – they may have complex chemistry, of may contain complex spatial and temporal structures. The talk will discuss some of these other forms of complexity, mainly from a modeling perspective.