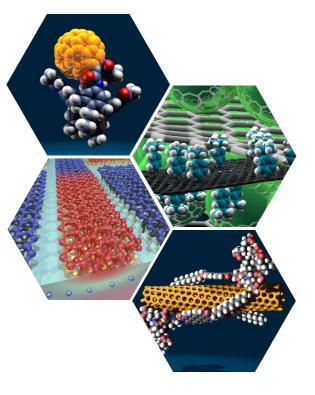


Seminar series of the Collaborative Research Centre (SFB) 953 «Synthetic Carbon Allotropes»



## Like charges repel, but what if it's all balls?

## **Prof. Peter Taylor**

Health Science Platform / Information Technology, Tianjin University, China

22<sup>nd</sup> November 2018

16:15

Lecture Hall C1 – Chemikum Nikolaus-Fiebiger Straße 10

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**ABSTRACT:** The dianion of the  $(C_{59}N)_2$  azafullerene dimer has been studied by computational chemistry. An apparent dilemma is critically addressed: Recent experiments reported the second electron affinity of  $(C_{59}N)_2$  despite the current believe that Coulomb repulsion exceeds by far the bond strength between the two spheres, leading to the proposal of a metastable dianion. The computational work shows that  $(C_{59}N)_2^{2-}$  is in fact a perfectly stable species, confirming experiments that lead to the dissociation-free formation of this dianion.





