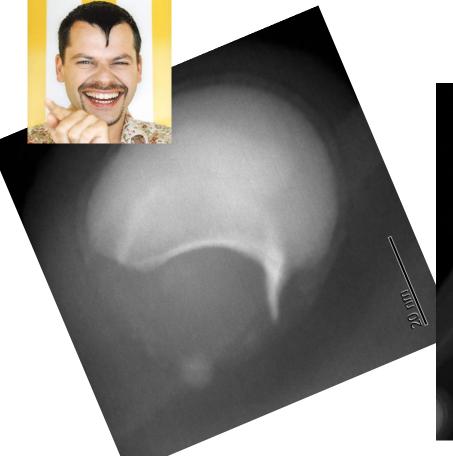
Semisphere Janus-like particles

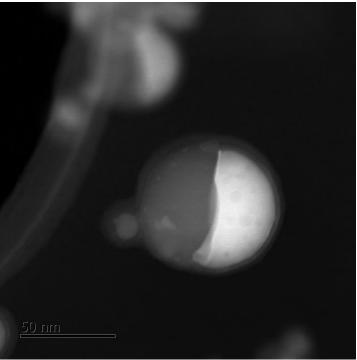
ID2725

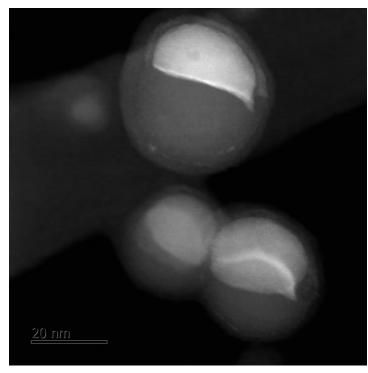
NeoArm

Niklas Wolff

(niwo@tf.uni-kiel.de)







The Si-crystalline spherical particles are semi-covered by a thin cap-shell containing elements of ??? Mn ,Cr and Sn, Fe ,Co ???



"Deutscher Schaller"

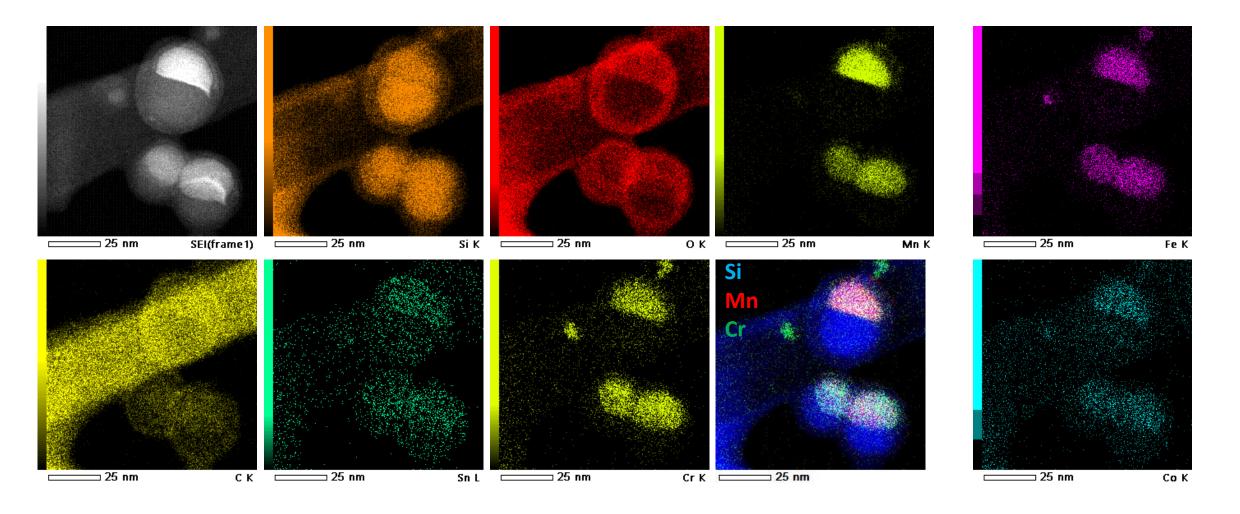


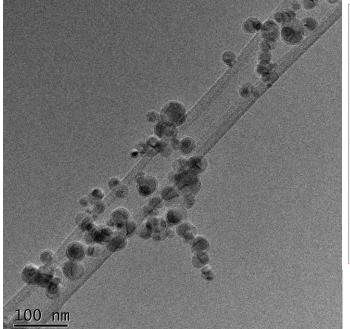
"Ballonschiebermütze"

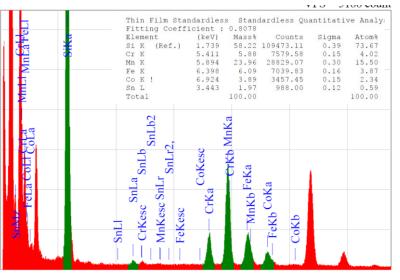
EDX Mapping

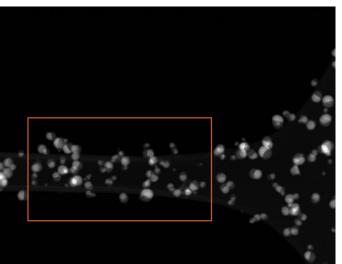
Are Cr, Fe, Co secondary signals?

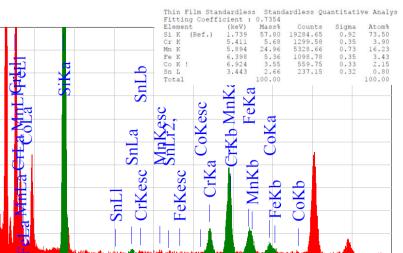
- Niklas Kohlman also observed Cr
- Check with Tecnai EDX determined that Cr and Fe are real signals and Co stems from the column

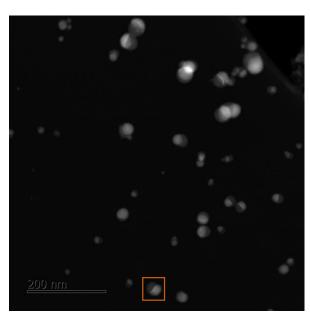


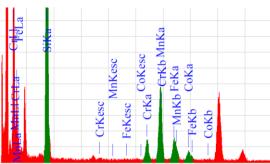






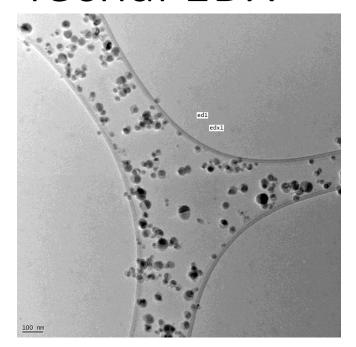


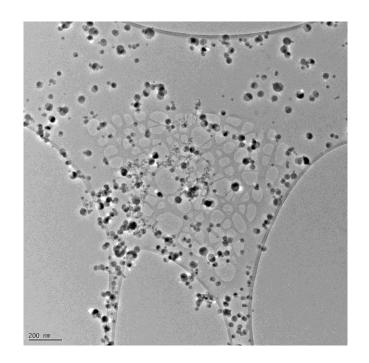


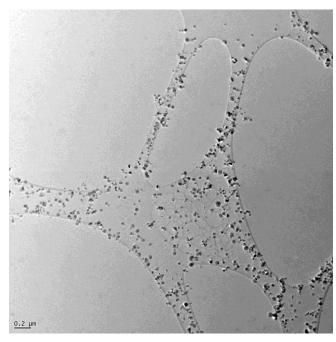


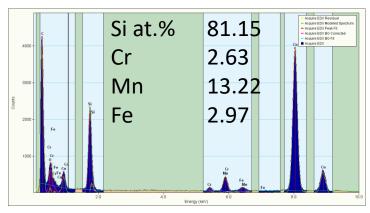
Thin Film Standardless | Standardless | Quantitative | Analysis |
Fitting Coefficient : 0.7429 |
Element (keV) | Mass% | Counts | Sigma | Atom% | Compound | Mass% | Cat |
Si K (Ref.) | 1.739 | 60.19 | 25186.08 | 0.84 | 74.74 |
Cr K | 5.411 | 5.31 | 1525.54 | 0.30 | 3.56 |
Mn K | 5.894 | 25.43 | 6809.73 | 0.66 | 16.15 |
Fe K | 6.398 | 5.52 | 1420.76 | 0.32 | 3.45 |
Co K ! 6.924 | 3.54 | 701.06 | 0.30 | 2.10 |
Total | 100.00 | 100.00 |

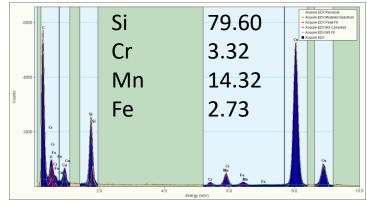
Tecnai EDX

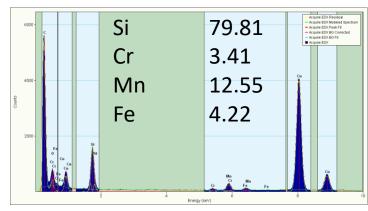












STEM tilt series

