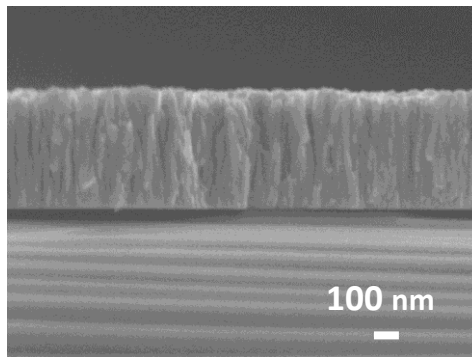


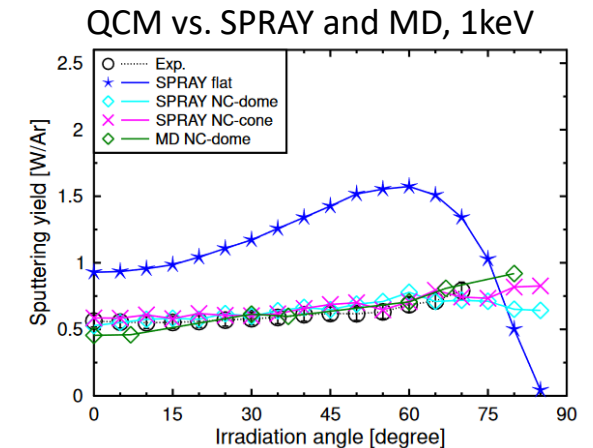
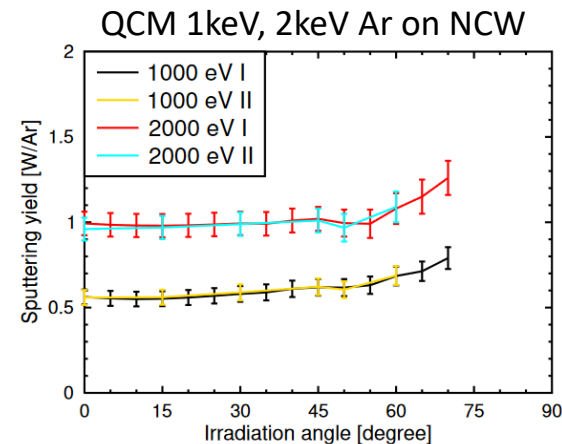
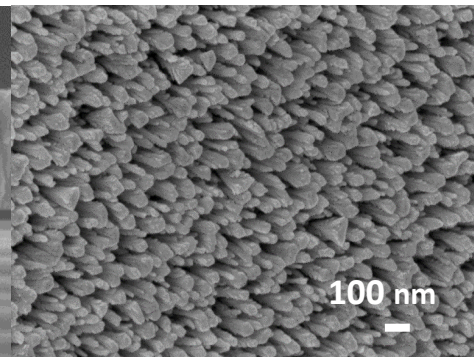
Our ongoing 2022's SP-B.1 task:

- Further investigate influence of **varying morphologies and structures on W sputtering**
- Cooperation with UPM Madrid / University of Helsinki: created oriented **nanocolumnar W (NCW) structure** on QCM samples
- QCM experiments with these W samples under Ar and D ion bombardment at TU Wien
- Comparison to results of SPRAY and MD - compare TU Wien/University of Helsinki SP-D task 2022

SEM cross-section NCW



SEM top-view NCW



- Argon sputter cases finished: Compared to flat surface, sputter yield is reduced and dependence on ion incidence angle is decreased
- Very good agreement with SPRAY and MD simulations (when suitable NCW surface is used as input)
- Geometrical effects found to be the major cause of effects in the argon sputter case -> Paper in preparation, see EF Pinboard [1]
- Outlook for remaining 2022: Continue exp. with D (+ simulations for SP-D); Redeposited W layers will be investigated by M. Feller