

Prof. Dr. S.E. Schulz

Seminar Questions Seminar 4: ALD / Litho / Etch

- 1) Please explain the specifics of ALD in comparison to CVD!
- 2) What are the steps of an ALD cycle?
- 3) Please name potential applications of ALD thin films!

- 4) Please name the basic process steps in the process flow of lithography and patterning!
- 5) Please name and discuss the equation for the resolution! (How to lower critical dimension $CD = \min.$ printable feature size)
- 6) Please name the applied resolution enhancement techniques (RET)

- 7) Please define the terms "anisotropy" and "selectivity"!
- 8) What are potential dry etching techniques? Please name the respective etching mechanisms and the achievable anisotropy!
- 9) Please draw a reactor for reactive ion etching and name the different parts!