

2D Graduate Network is an important part of the Swedish 2D material ecosystem. 29-30 May we had an impressive workshop at Vildmarkshotellet in Kolmården.



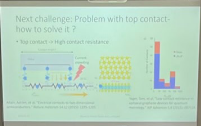
















Technology for scalable graphene electronics
Graphene: an interface between industry and academia.
Sub-band physics in graphene-based devices
Fabrication of Graphene field effect transistor on arbitrary
substrates
Characterization with analysis with field-emitting ZnO Nanorods
Graphene-based conducting nanowires for gas sensing applications: advances
and challenges
TU/e, AB, CTH: On the road towards scalable gas sensors based
on graphene
Graphene-based antibacterial surfaces for medical devices
Graphene-based Nanocellulose for wound monitoring.
TU/e, CTH: Graphene-based textile pressure sensors for health



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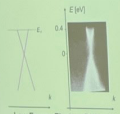




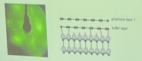
Angle-Resolved Photoemission Spectroscopy (ARPES): evidence of AB bilayer on SiC

1. Grow epitaxial graphene.
2. Intercalate epitaxial graphene

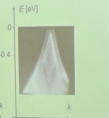
ARPES bandstructure:
epitaxial MLG on SiC



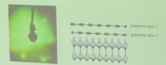
Low Energy Electron Diffraction (LEED)



Theoretically predicted bands
for AB bilayer on SiC



Low Energy Electron Diffraction (LEED)





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GFET on EVA/PET



Bottom gate!

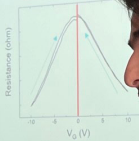
Hall measurements:

$R_s \rightarrow 3,76 \text{ e}+3 \text{ ohm}$

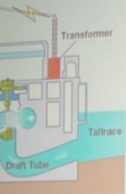
$\mu \rightarrow 3610 \text{ cm}^2/\text{Vs}$

$n \rightarrow 4,56 \text{ e}+12 \text{ cm}^{-2}$

FET measurement



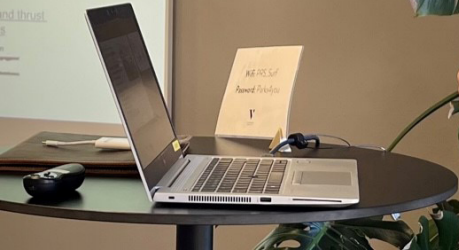




Speed
and thrust

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V

NR 105, Surf
Paviljoen
V



Thanks!



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GRAFEN

