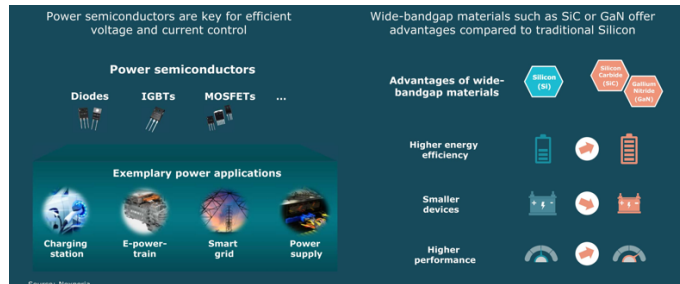


Industry Mixer - An External Master Thesis at Nexperia Insights into the Essential Semiconductor Industry and Research in In Situ Dopant Incorporation during Epitaxial SiC CVD

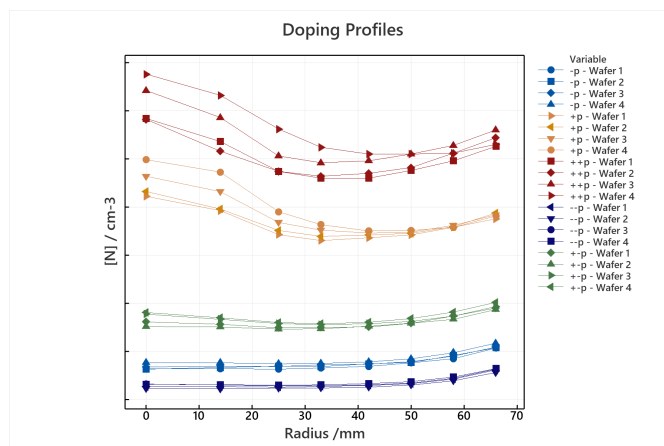
Alexander Schrader,
AG Blick, CHyN and Nexperia, Hamburg

[CHyN, Rm.-301, 07. Mai 2024, 13.15h,
 hybrid: Zoom-999-4554-8884, 894-335-73]

Essential Semiconductor Devices have become exponentially more important in the increasingly electrified and automated world we currently live in. In this time, the semiconductor industry has been an integral part in providing multiple industry branches with devices such as MOSFETs, BJTs, Schottky Diodes, Rectifiers etc. which are indispensable for any product that works with electricity or signal transmission. Nonetheless, this part of the industry remains hidden to most people, even those interested in semiconductor physics. In this talk I will give insight into my current work at Nexperia, which will include a general introduction to the company as well as providing an overview of my Master Thesis research in Silicon Carbide Dopant Incorporation mechanisms during CVD growth, which I am conducting for the Nanoscience-Group of Prof. Dr. Blick in cooperation with Nexperia Germany GmbH.



Company Presentation Nexperia



Measurement A. Schrader