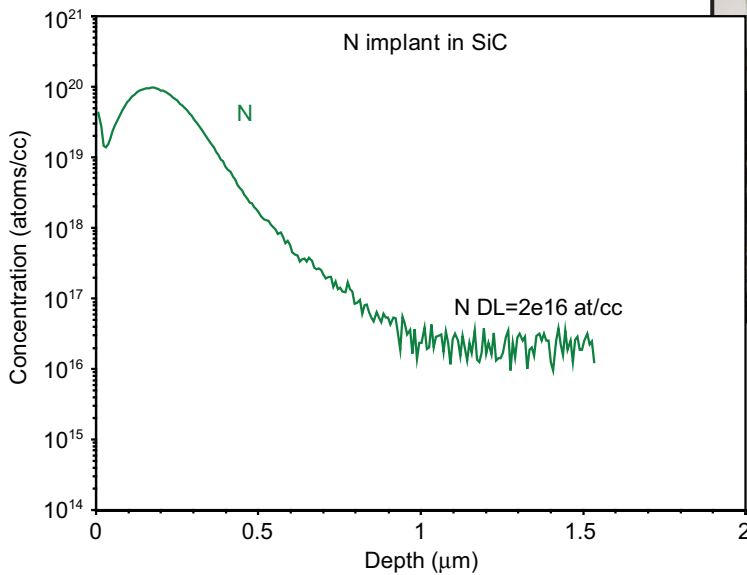
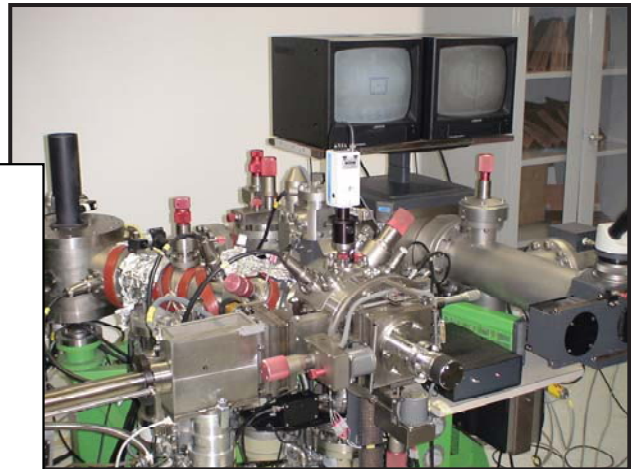


EAGSM AN 436
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 SiC 4-inch Whole Wafer Analysis

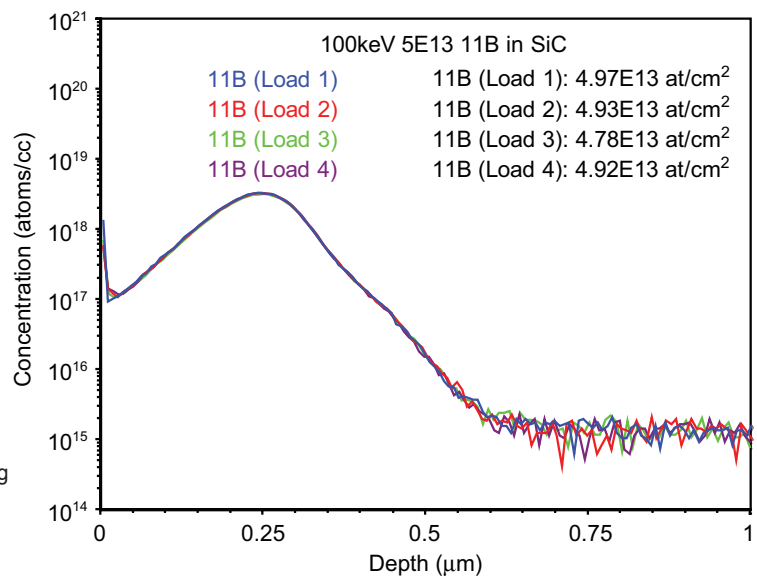
May 9, 2007 (Version 2.0)

Sample Introduction System Allows for Analysis of SiC Wafers up to 4" in Diameter

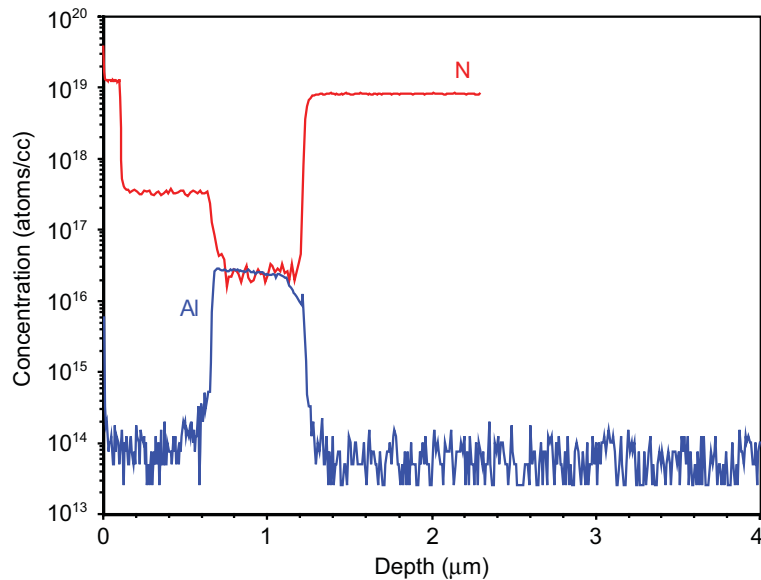
Modified Cameca 4f with 4" Sample Intro System



Nitrogen Analysis.
 A N detection limit of $\sim 2e16$ atoms/cc can be achieved after ~ 2 hours of pumping.



Excellent load to load reproducibility.
 Load to load reproducibility was tested by introducing the sample multiple times.



SIMS profile of Al and N from a 2" SiC wafer. The Al profile was acquired using oxygen beam sputtering, and N profile was acquired using Cs beam sputtering. The whole wafer capability provides concentration and thickness of each epi layer without breaking the wafer.

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