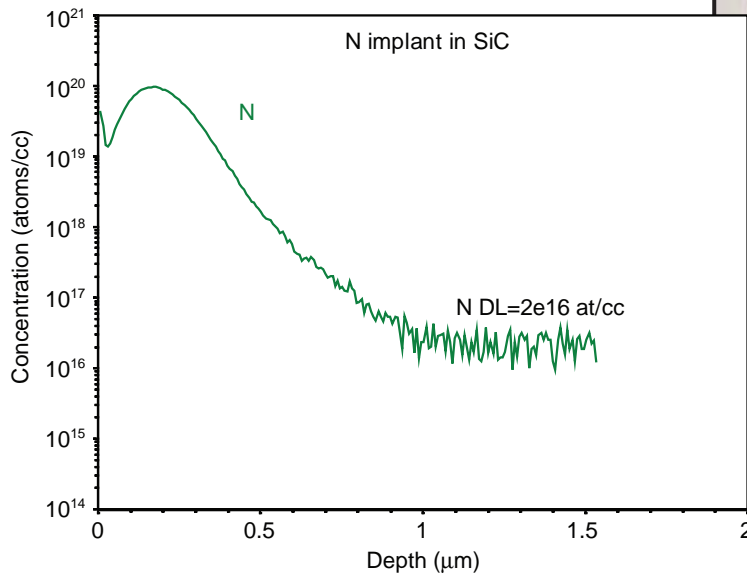


August 8, 2011 (Version 3.0)

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

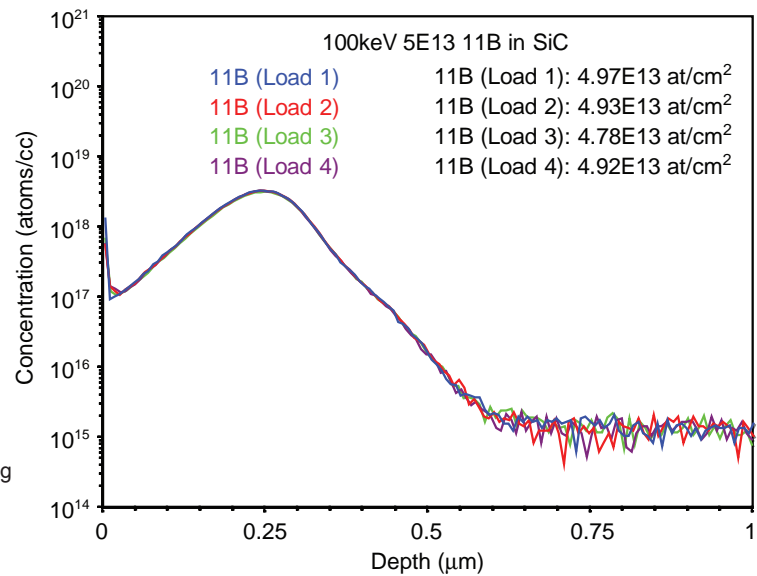
Modified Cameca 4f with 4" Sample Intro System



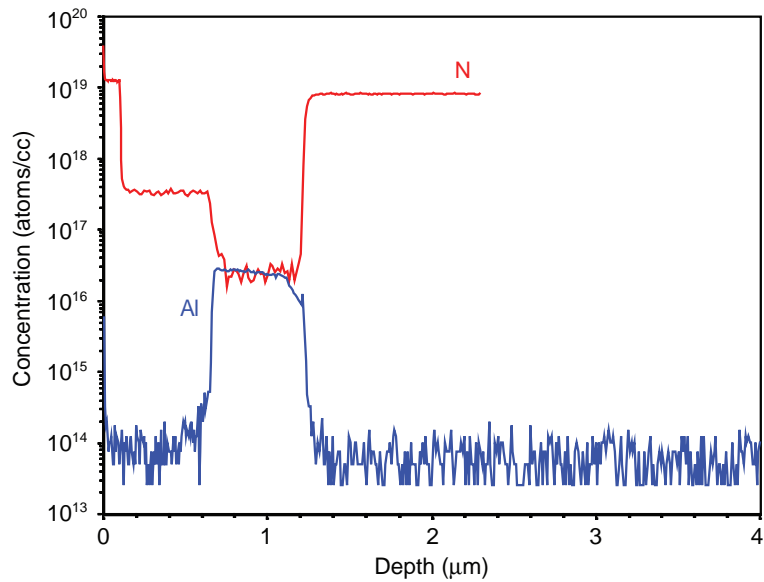
Nitrogen Analysis.

A N detection limit of  $\sim 2\text{e}16$  atoms/cc can be achieved after  $\sim 2$  hours of pumping.

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



**SIMS analysis on 6" SiC whole wafers will be available soon**



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.