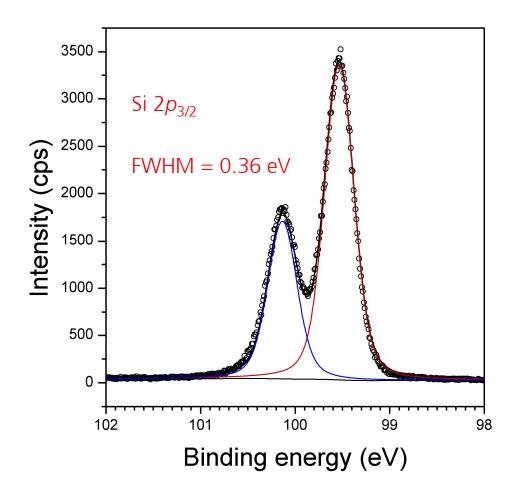
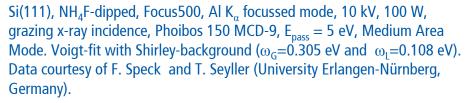
Surface Analysis Technology	Vacuum Components	S	PE	С	S®	Surface Analysis System Software	Computer Technology
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## Monochromated XPS of Hydrogen-Terminated Silicon (111)

## **Application Notes**

The high resolution capability of the PHOIBOS 150 MCD-9 analyzer and the FOCUS 500 monochromator was demonstrated by XPS measurements on H terminated Silicon (111). The spin orbit splitting of the Si 2*p* states (binding energies 99.53 eV and 100.13 eV) is clearly resolved, with a FWHM down to 0.36 eV for the Si 2*p*<sub>3/2</sub> component. For peak fitting a Voigt line profile and a Shirley background were used.





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