

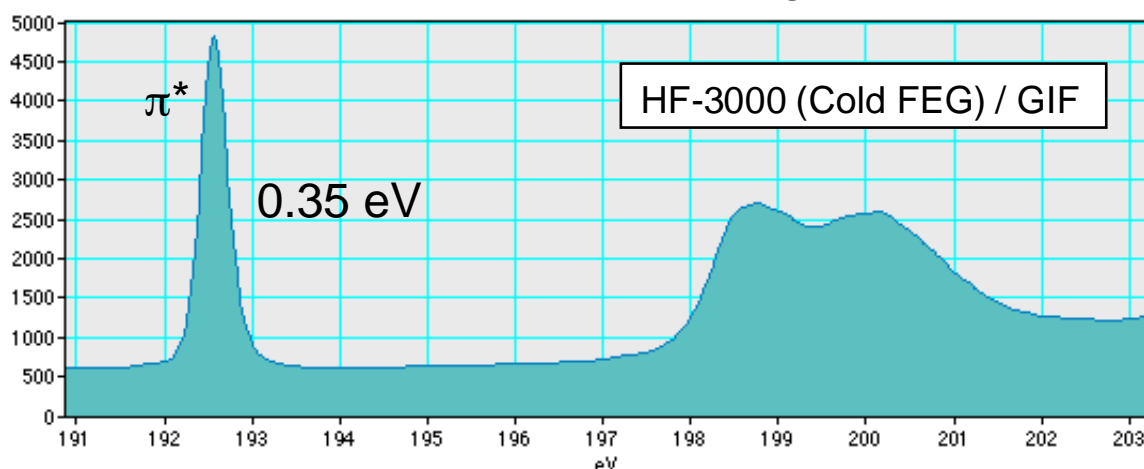
*DigitalMicrograph
Plug-in*

DeConvEELS

Software Monochromator

DigitalMicrograph Plug-in for Electron Energy Loss Spectrum Deconvolution

Deconvoluted Boron K-Edge of h-BN



The peak width of π^* is close to the result obtained by using
a monochromated TEM with a high-resolution GIF.

(Data: Courtesy of Dr. K. Kimoto)

DeConvEELS is the software for rectifying Electron Energy Loss Spectrum (EELS) by deconvoluting it with a low-loss or zero-loss spectrum. This is a software monochromator, since it will eliminate energy spread of incident electrons. The DeConvEELS software consists of a suite of scripts and a Plug-In for use in Gatan's DigitalMicrograph 3.4, or later, both for Windows and Macintosh platforms.

- Advanced deconvolution algorithms The DeConvEELS software uses a Maximum Entropy Method or the Richardson-Lucy Algorithm for a spectrum deconvolution.
- Easy-to-Use User Interface The DeConvEELS software is easy to use and normally works with default setups. Nevertheless, the user can change its setups easily within a custom-made setup dialog.

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