

# Table of Contents

<b>Guess Peaks (Pro only)</b> .....	1
<i>Smoothing of Data and 2nd Derivative</i> .....	1
<i>The Number of Peaks</i> .....	1



# Guess Peaks (Pro only)

MagicPlot can approximately locate peaks in spectrum. To locate peaks click on Guess button in Fit Curves tab of Fit Plot. Peak guessing is performed by looking for local minimums of second derivative of data-baseline.

While Guess Peaks window is open you can see the preview of guessed peaks on Fit Plot. This preview is updated every time you change the parameters in the window.



## Smoothing of Data and 2nd Derivative

Smoothing is used in order to filter narrow peaks which can be guessed from noise. MagicPlot peak guess tool is capable of smoothing both data and second derivative before finding local minimums. Smoothing is used only to find peaks and does not affect the data on Fit Plot.

W [Savitzky-Golay method](#) is used for smoothing. This algorithm performs a local polynomial regression of specified degree on specified number of points. The more points, the stronger is smoothing.

## The Number of Peaks

MagicPlot sorts found peaks by amplitude and suggests only a specified number of greatest peaks. You can change the number of guessed peaks with slider or by entering value in the text field with spinner.

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