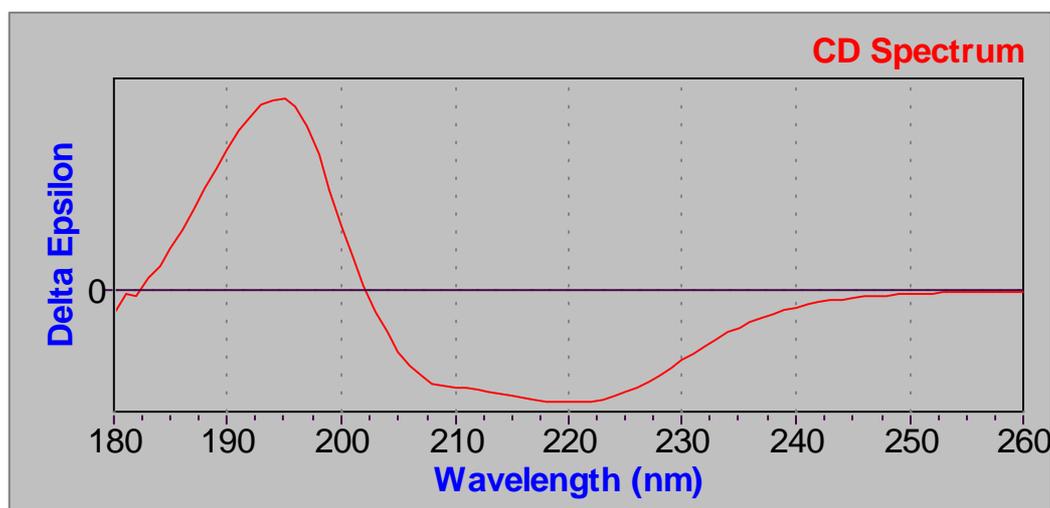## CDNN: ANOTHER INTERESTING FREE SSE SOFTWARE

In Technical Report N° 29 we had been discussing about the same subject.
We have been playing recently with the CDNN software developed by Gerald Bohm of University of Halle (Germany). This package uses precompiled neural networks for the deconvolution of the CD spectra[1].
Software can be easily downloaded from http://bioinformatik.biochemtech.uni-halle.de/cd_spec/ and it runs well on Win 95, NT ….. (we are using with 98).
The following instructions will allow you to use it with Jasco files collected by Spectra Manager Software:

-CDNN software reads .txt files, we suggest to use Note Pad to save these, so open it
-spectra should start at least from 260nm and as far as possible in low UV
-load the your spectra in Jasco Spectra Analysis
-from CD Options → Move Channel transfer spectra in another memory (in order to get it free from Ch-2 …data)
-from Common Options → Data Dump select proper thin out to have 1nm/data point and limit the file from 260nm down
-than press OK, you'll see the table (wavelength – CD intensity), press Copy
-paste the table on Note Pad
-save it with name you wish in a directory
-open CDNN program
-File → Open to load your spectra
-you will be required to select your format (Δε, [Θ] or Θ …..), if you have the file in Θ (millideg) the scale conversion will be done by the software[2].
-press Deconvolute to see results a graphical and numerical form will appear

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[1] Bohm. G., Muhr R., Jaenicke R. *Protein Eng.* 5(3) ((1992) 191
[2] this is a rather convenient feature since you save this step with the spectrometer software