

Baseline Correction: Removing the Smile

- The **Baseline** is All Parts of the Spectrum Without Peaks
- Baseline Should Be Noise Centered on Zero Intensity
- Often There is a Smile, a Frown, or a Wave in the Baseline: This Leads to Inaccurate Integration
- There are Many Methods for Baseline Correction
 - Bruker: **abs** (Automatic Baseline Straightening)
 - Varian: **bc(1)**
 - Felix: **flatt**
- All Methods Fit the Noise (the Baseline) to a Smooth Mathematical Function (e.g., Polynomial) and then Subtract That Function from the Spectrum
- For Publication, You May Only Need to Correct a Part of the Spectrum