

NMR Spectroscopy

Chemistry

What each feature of a ^1H NMR spectrum tells you.

What each feature reveals.

Feature	Tells you
Number of signals	Number of hydrogen environments
Chemical shift (δ)	The type of environment
Integration ratio	Relative number of hydrogens
Splitting pattern	Number of hydrogens on adjacent carbons

The $n+1$ rule: a signal split into $n+1$ peaks has n hydrogens on neighbouring carbons. A triplet means two neighbours.