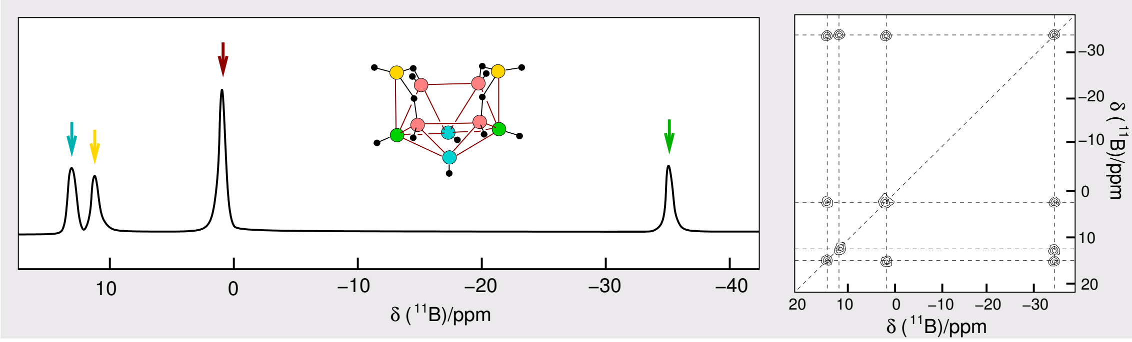
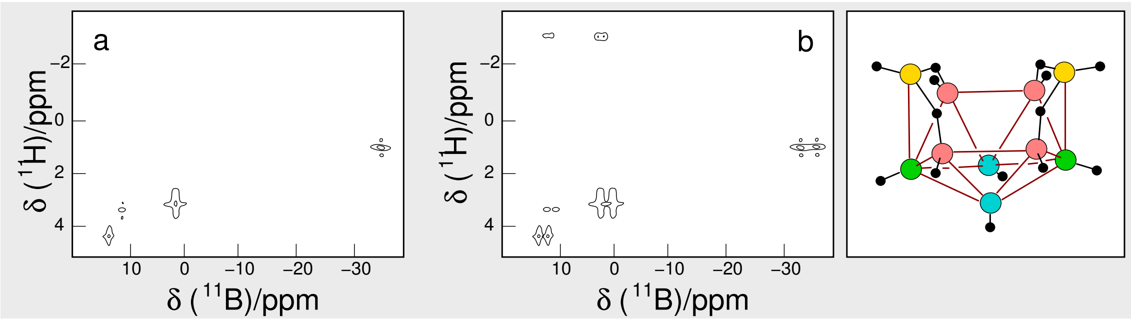
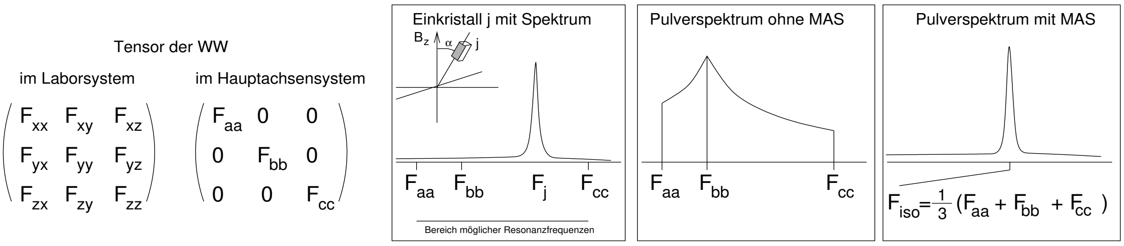
3. NMR-Spektroskopie (Forts.)
3.2. Beispiele für unterschiediche Spektren



^{11}B-NMR-Spektrum mit Entkopplung der Protonen



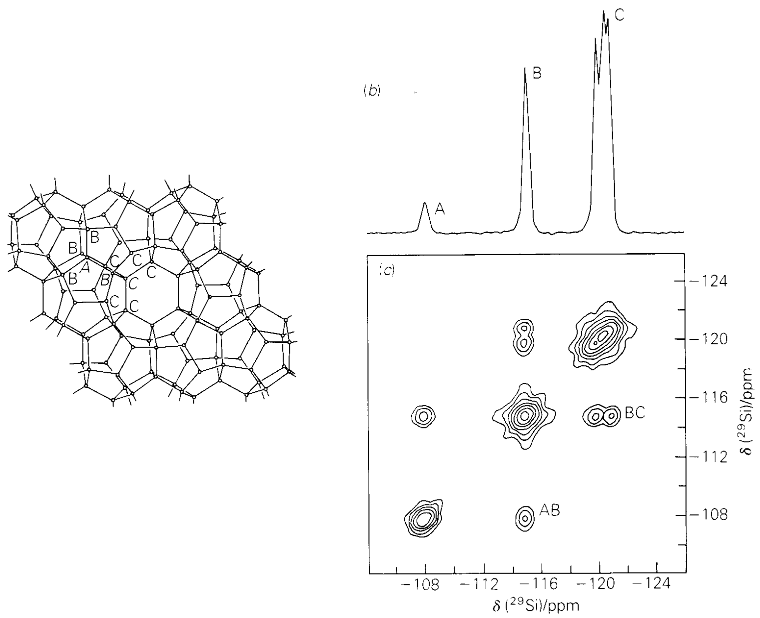
Hetero-^{11}B/^{1}H-COSY-Spektren



$$\begin{pmatrix} F_{xx} & F_{xy} & F_{xz} \\ F_{yx} & F_{yy} & F_{yz} \\ F_{zx} & F_{zy} & F_{zz} \end{pmatrix} \qquad \begin{pmatrix} F_{aa} & 0 & 0 \\ 0 & F_{bb} & 0 \\ 0 & 0 & F_{cc} \end{pmatrix}$$

$$F_{iso} = \frac{1}{3}(F_{aa} + F_{bb} + F_{cc})$$

Prinzip der MAS-NMR-Technik



^{29}Si-COSY-MAS-NMR Spektrum von ZSM-39 (Dodecasil-1H)