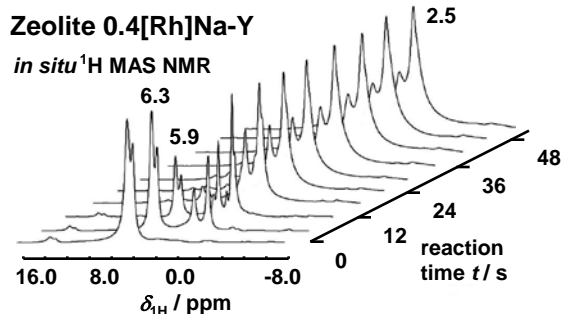
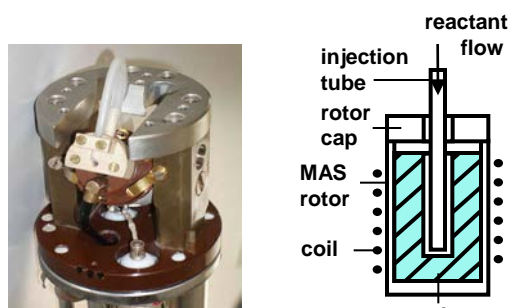


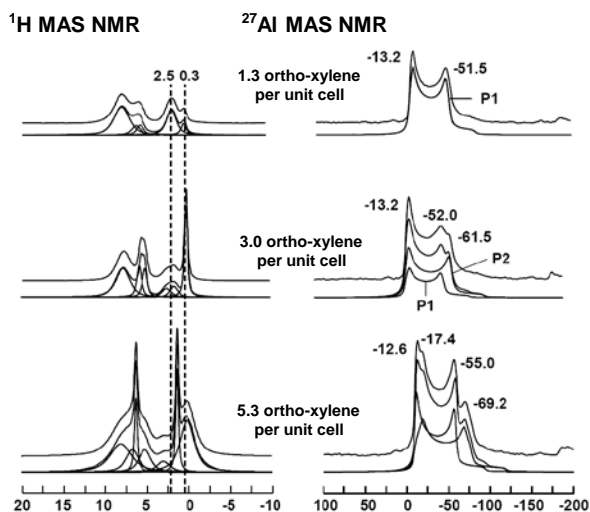
## Multi-Nuclear Solid-State NMR Spectrometer Bruker AvanceIII 400WB

- Magnetic field of  $B_0 = 9.4 \text{ T}$
- Several MAS NMR probes
- Static solid-state NMR probe
- $^1\text{H}$  PFG NMR Probe
- Modified MAS NMR probe for *in situ* studies under continuous-flow conditions



*In situ*  $^1\text{H}$  CF MAS NMR study of the hydrogenation of acrylonitrile over zeolite 0.4[Rh]Na-Y.

### Metal-organic framework MIL-53



$^1\text{H}$  MAS NMR and  $^{27}\text{Al}$  MAS NMR spectra of the metal-organic framework MIL-53 recorded after dehydration at 473 K and subsequent adsorption of ortho-xylene.

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