NMR Spectrometer (500 MHz)

Nuclear magnetic resonance spectroscopy is used to study 1. Molecular conformation in solution II) Quantitative analysis of mixtures containing known compounds III) Determining the content and purity of a sample IV) Through space connectivity (overhauser effect)

Make and Model:

Bruker (Germany) Avance III HD

Specification/ Features

- Magnet : Bruker Ascend™ 500
- Probe : Tuneable Multinuclear Probes (^{1}H, ^{11}B, ^{13}C, ^{31}P, ^{19}F , ^{77}Se , ^{125}Te , ^{199}Hg)
- Bruker NMR software : Topspin 2.1
- Variable temperature capability (-40 to +60° C)
- Various 2D experiments

Available mode of use:

- Solid
- Liquid

Whether the facility is open to external users: yes

Location:

Room no: CL 16, Ground floor

Department: Chemical engineering, IIT Bombay, Powai, Mumbai-400076

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