NPTEL Video Course - Chemistry and Biochemistry - NOC:One and Two Dimensional NMR Spectroscopy: Concepts and

Subject Co-ordinator - Prof. N. Suryaprakash

Co-ordinating Institute - IISc - Bangalore

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 30 - Analysis of spectra of Heteronuclei
Lecture 31 - Heteronuclear spectral analysis
Lecture 32 - Spin Echoes - I
Lecture 33 - Spin Echoes - II
Lecture 34 - Sensitivity enhancement
Lecture 35 - Polarization transfer
Lecture 36 - INEPT
Lecture 37 - 2D NMR - I
Lecture 38 - 2D NMR - II
Lecture 39 - 2D-COSY - I
Lecture 40 - 2D COSY - II
Lecture 41 - Types of COSY spectra
Lecture 42 - TOCSY
Lecture 43 - HSQC - I
Lecture 44 - HSQC - II
Lecture 45 - me-HSQC
Lecture 46 - HSQC and HMBC
Lecture 47 - HMBC - II
Lecture 48 - 2D INADEQUATE
Lecture 49 - 2D-INADEQUATE and 2D J-Resolved
Lecture 50 - Homo and Heteronuclear J-resolved
Lecture 51 - Conceptual understanding of NOE
Lecture 52 - Positive and negative NOE
Lecture 53 - NOE and correlation times
Lecture 54 - Complications in NOE, Steady state NOE
Lecture 55 - ROESY and Tr NOE
Lecture 56 - Combined utility of COSY, TOCSY, HSQC, NOESY
Lecture 57 - Steady State NOE
Lecture 58 - 1D NOE, 1D TOCSY
Lecture 59 - 1D-TOCSY, PURESHIFT
Lecture 60 - PURSHIFT NMR