



MRI : Magnetic Resonance Imaging

Nobel prizes:

- F. Bloch and E. Purcell (1952: Physics)
 - Discovery of NMR (Nuclear Magnetic Resonance)
- R. Ernst (1991: Chemistry)
 - Fourier spectroscopy with NMR
- P. Lauterbur and P. Mansfield (2003: Medicine)
 - Discovery of MRI



Nuclear Magnetic Resonance (NMR)

Description: classical vector model + some quantum mechanical (QM) concepts

❑ Magnetic properties of nuclei

➤ Atomic nucleus

- protons + neutrons
- Atomic number Z : number of protons
- Mass number A : number of nucleons (protons + neutrons)



- Nuclei with uneven Z or A have spin quantum number $I \neq 0$

Examples: $I = 1/2$ for ${}^1\text{H}$, ${}^{13}\text{C}$, ${}^{31}\text{P}$

Nuclear Magnetic Resonance And Relaxation



G Orfield

Nuclear Magnetic Resonance And Relaxation:

Whispering the Strategies of Language: An Psychological Journey through **Nuclear Magnetic Resonance And Relaxation**

In a digitally-driven earth wherever screens reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases often get unheard. Yet, set within the pages of **Nuclear Magnetic Resonance And Relaxation** a fascinating literary value pulsing with raw feelings, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within ab muscles cloth of every word. Within the psychological depths with this emotional evaluation, we shall embark upon a honest exploration of the book is primary styles, dissect their charming writing fashion, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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