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Magnetic Resonance Imaging (MRI) is based on radio frequency (RF) interrogation of the human body at frequencies between 40 MHz to 300 MHz. An RF transmitter excites proton spin precession and then, in a manner analogous to an RF ID tag, the proton's precessional ring down reports back local information about its

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Magnetic Resonance

Imaging: Physical ...

MRIs employ powerful magnets which produce

a strong magnetic field

that forces protons in

the body to align with

that field. When a

radiofrequency current

is then pulsed through

the patient, the protons

are stimulated, and spin

out of equilibrium,

straining against the pull

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of the magnetic field.

When the radiofrequency field is turned off, the MRI sensors are able to detect the energy released as the protons realign with the magnetic field.

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