

Re: MRI Machines

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-06/msg04502.html>

- *From:* John Larkin <jjlarkin@xx>
 - *Date:* Wed, 25 Jun 2008 08:23:10 -0700
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On Wed, 25 Jun 2008 08:58:36 -0400, Spehro Pefhany
<speffSNIP@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On Tue, 24 Jun 2008 17:33:34 -0700, John Larkin
<jjlarkin@xx> wrote:

On Tue, 24 Jun 2008 19:30:42 -0400, RFI-EMI-GUY
<Rhyolite@xxxxxxxxxxxx> wrote:

Jim Thompson wrote:

On Tue, 24 Jun 2008 11:34:07 -0700, John
Larkin
<jjlarkin@xx>
wrote:

On Tue, 24 Jun 2008
13:28:46 -0400,
RFI-EMI-GUY
<Rhyolite@xxxxxxxxxxxx>
wrote:

Well I spent
a half hour
of my life
under the
magnet of
an "open"
MRI
machine
yesterday.
Still a bit
claustrophobic.
While I sort

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of
understand
the theory
of the MRI,
what I don't
understand
is what
creates all
the noise
and racket.
Any experts
out there
that can tell
me
whats going
on?

Pulsed gradient coils. These are "small" 3-axis coils that sweep a gradient field across your innards, modulating the nuclear resonant frequencies of your molecules to produce the spatial resolution. These are generally water-cooled, with ballpark 20 KW constant-current drivers per axis, playing all sorts of weird waveforms.

They scanned my head last year, with the gradient coils around my head like some horror mask: noisy and boring.

John

A few years ago they scanned my sinuses.

I must admit a claustrophobic feeling also :-)

...Jim Thompson

I told the tech to give me a time check every so often so I wouldn't

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lose my mind, then I worked out a design problem in my head for 30 minutes as a distraction. I can put up with a lot of stuff but being inside or under that thing creeps me out. I keep having visi