

Re: MRI Machines

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- *From:* Joerg <notthisjoergsch@xxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 24 Jun 2008 11:57:30 -0700
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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@xxxxxxxxxxxxx> 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 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 :-(

That's probably because you guys don't have a house with a narrow crawl space. At least you can be sure that there won't be critters such as rattle snakes waiting inside that MRI tube.

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Regards, Joerg

Re: MRI Machines

<http://www.analogconsultants.com/>

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