

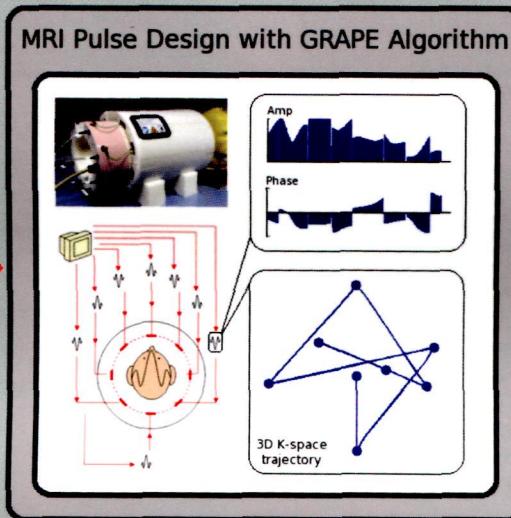
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J80/mr



ISSN 1090-7807  
Volume 230, May 2013

# JMR

Journal of Magnetic Resonance



After measuring B0 and B1 maps of a parallel transmission setup (left), ultra-high-field data is fed into a gradient ascent pulse engineering program to design refocusing, B1 inhomogeneity-mitigating pulses (middle). Spin-echo MRI and quantum process tomography experiments (right) validate these quantum control tools.

Editor: Lucio Frydman

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SciVerse ScienceDirect



Volume 230, May 2013

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