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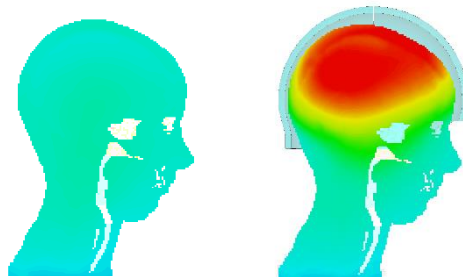


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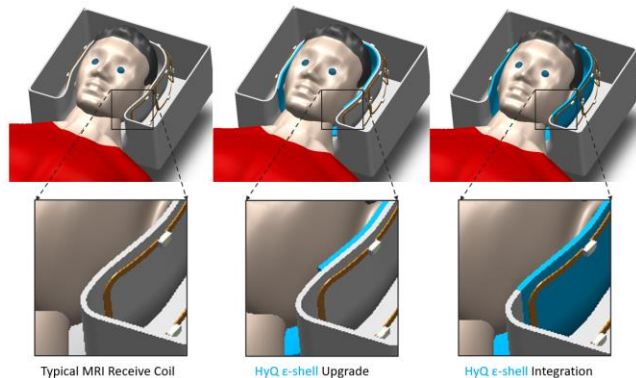
- **Double MRI throughput** with the **HyQ ϵ -shell** upgrade
- A high permittivity ceramic liner for your coil
- Increase SNR / Reduce scan time



Who we are

HyQ Research Solutions, LLC is dedicated to **innovating Magnetic Resonance Imaging using advanced materials**. We provide the MR community with custom-tailored high-permittivity products for RF devices. Everything with the focus to make MRI faster, safer and better (currently for research use only).

We are designing and manufacturing ceramic products like ceramic composites and monolithic ceramic materials. We can provide the full spectrum of services including numerical RF simulations, material design and characterization; to manufacturing of large, free-form, solid ceramic RF coil formers / coil shells. Reach out to us today to discuss how high permittivity materials can improve your coil.



Implementation

Option 1: A simple upgrade to your existing hardware, as a drop-in secondary liner of the RF receive coil.

Option 2: Integrated design of a new coil in collaboration with your favorite vendor.

Benefits

In publications with our collaborators, we have shown:

- Significant improvement of Signal-To-Noise Ratio (SNR) +20% to +120% depending on scenario
- Significant boost to Transmit efficiency and reduction in Specific Absorption Rate (SAR): -40% to 90%