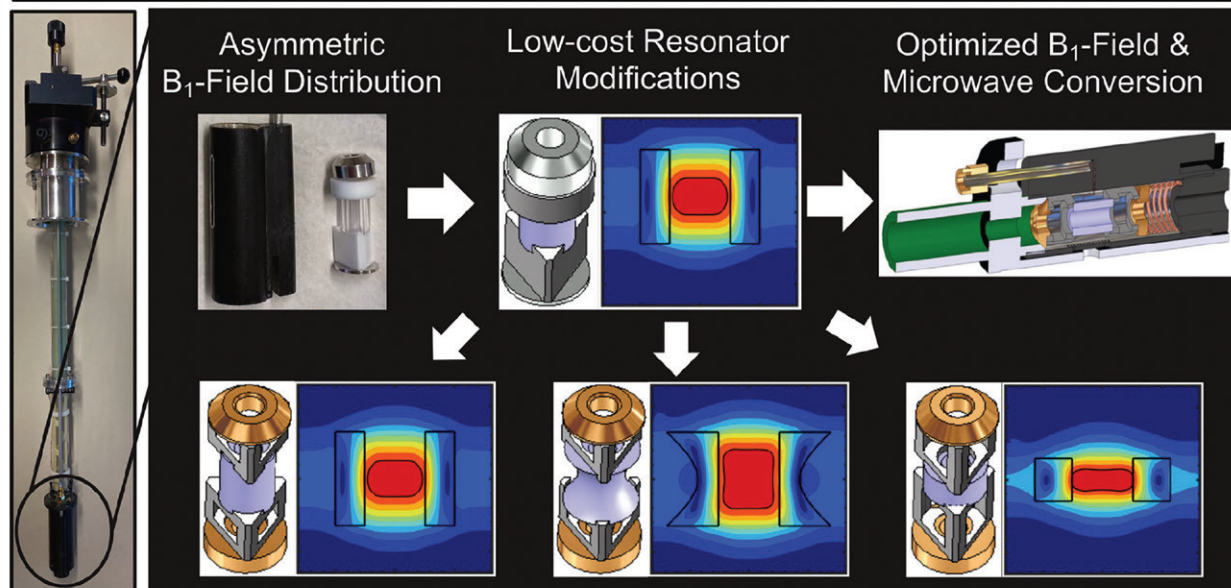


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Towards high performance EPR resonators



Presented here are three novel low-cost optimization approaches for a commercially available X-Band (9-10 GHz) EPR (electron paramagnetic resonance) microwave resonator for three experimental purposes (continuous-wave (CW), transient and pulse EPR).

Above, the simulated B_1 -field profiles of the original and our three optimization approaches are shown with the scheme of one resonator configuration implemented into the resonator cavity.

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