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Comparison of antennae designs for RF plasma source¹ RICHARD KAMIENESKI, ALEXANDER HYDE, ANDREW TAYLOR, OLEG BATISHCHEV, Northeastern University/ Physics/ CIRCS — We study different antennae designs for inductively-coupled discharges to optimize RF-plasma coupling at 13.56MHz and minimize heat losses. In particular, we examine ways to optimize surface density for current conductors and minimize ohmic heating by using silver alloys. Results of numerical and experimental investigation of both rigid and flexible antenna designs are discussed.

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Oleg Batishchev Northeastern Univ

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