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Daniel Onofrei*, dtonofre@central.uh.edu. *Active field control through surface sources.*

In this talk we will present some of our recent results concerning the inverse source type problems inquiring into the possibility to control radiated fields in prescribed exterior near field regions and given far field directions. We will focus on scalar fields modeled by the Helmholtz equation in free space and finite depth homogeneous ocean environments and together with theoretical results present several simulations in relevant applied scenarios. (Received January 14, 2021)