

# PROJECT / Reconfigurable Low-profile Antennas Using Metamaterials

## R-META

### Main Objective:

The aim of the project is to design and theoretically characterize reconfigurable metamaterial surfaces that can be used as ground planes for low-profile antennas, although other relevant applications are anticipated. Tunable elements are incorporated into the surface, such as varactor diodes or micro-electro-mechanical systems (MEMS), to allow that the resonance frequency, as well as the effective response of the surface (i.e. the effective boundary condition), can be tuned electronically.

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