Dipole excitation of surface plasmons on a conducting sheet: A finite-element study

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Goals

- Numerical study of the generation of surface plasmons by an electric (Hertzian) dipole situated above and on an interface
- Numerical verification of analytical results

Vertical dipole (scattered electric field in x-direction)

$km \approx 10 + 0.02i$
$km \approx 10 + 0.1i$