

Scilab Manual for  
Antenna Wave Propagation  
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# Experiment: 1

## Radiation pattern of half-lambda dipole

Scilab code Solution 1.1 Radiation Pattern of Half Wave Dipole

```
1 //radiation pattern for the half wave dipole antenna
2
3 phi=linspace(0,2*%pi,1000);
4 rad=abs(sin(phi));
5 k=1; //the multiplication factor depends on the
      current and the length of the dipole antenna
6 polarplot(phi,k*rad)
7
8
9 //Input Constant==> k-->Depends on the current and
  the length of the dipole
```

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