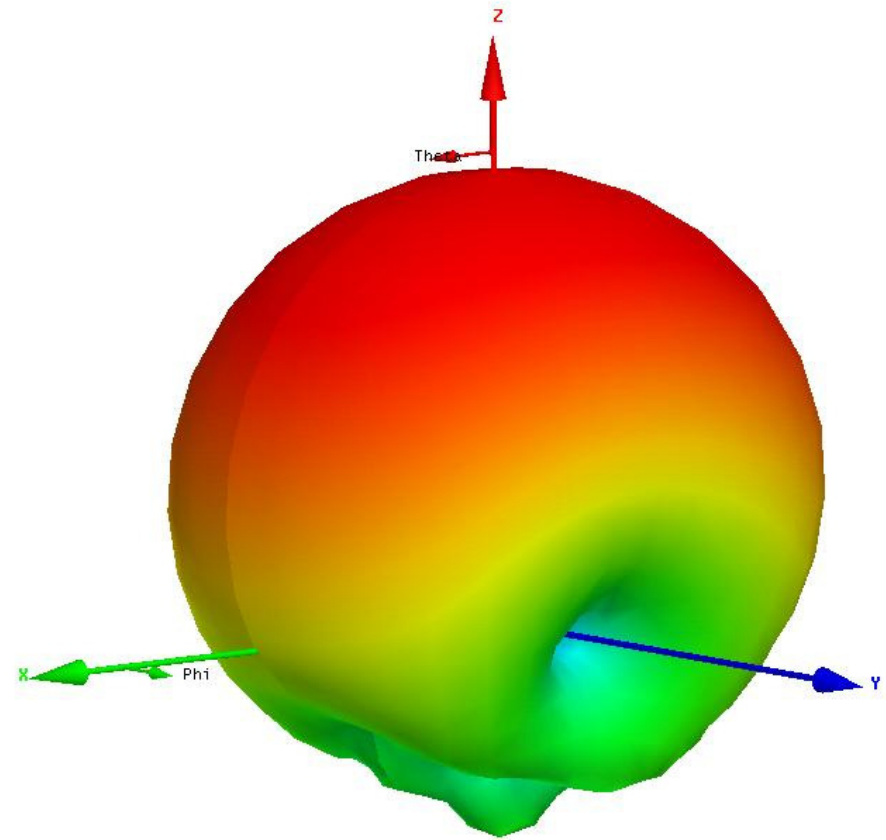


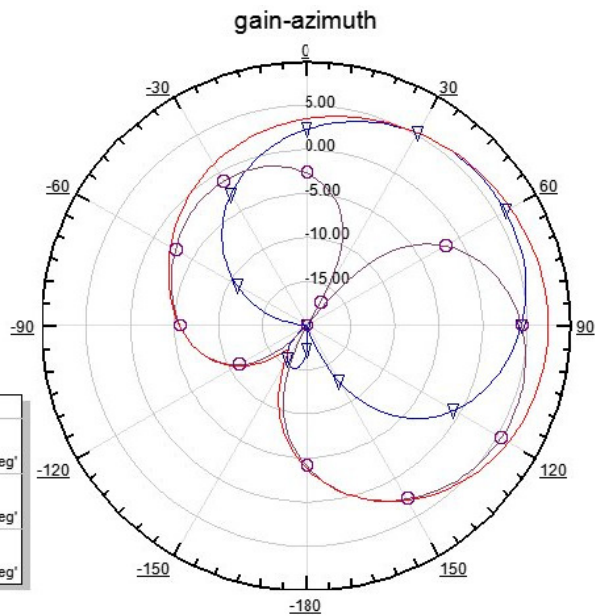
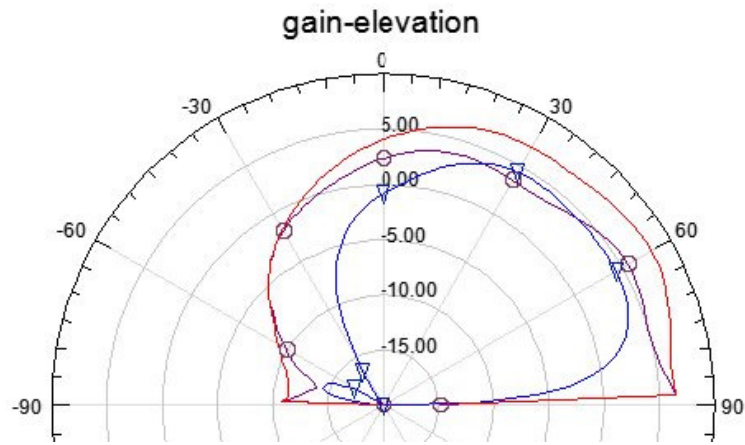
Calibration measurements of the BRAMS stations

Antonio M.P., Michel A., Sylvain R.,
Hervé L.

Radiation pattern measurement with a drone



Simulated Radiation pattern

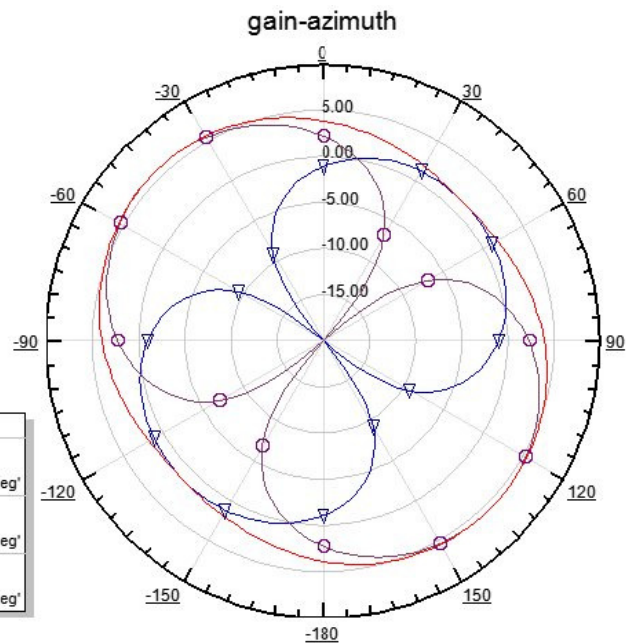
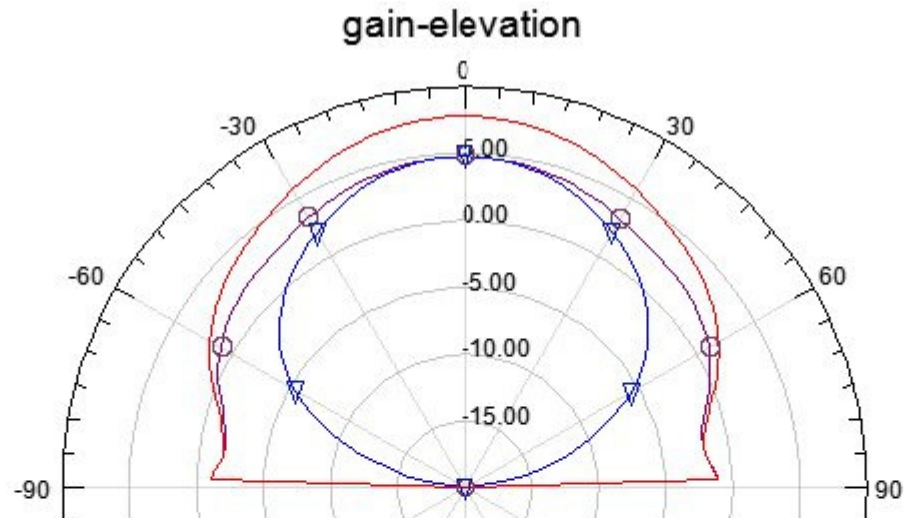


Curve Info	
—	dB(GainTotal) Setup1 : LastAdaptive Freq=0.04997GHz' Theta=46deg'
—○—	dB(GainPhi) _1 Setup1 : LastAdaptive Freq=0.04997GHz' Theta=46deg'
—▽—	dB(GainTheta) Setup1 : LastAdaptive Freq=0.04997GHz' Theta=46deg'



Sensitive to ground properties !!

Simulated Radiation pattern

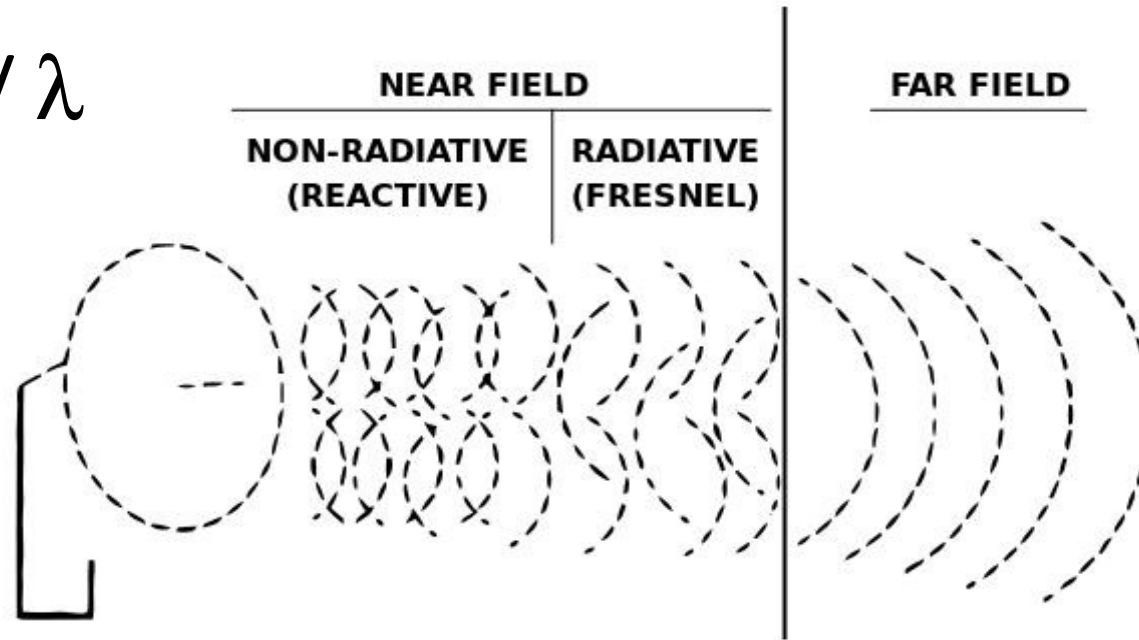


Curve Info	
—	dB(GainTotal)
Setup1 : LastAdaptive	
Freq=0.04997GHz' Theta='46deg'	
○	dB(GainPhi)_1
Setup1 : LastAdaptive	
Freq=0.04997GHz' Theta='46deg'	
▽	dB(GainTheta)
Setup1 : LastAdaptive	
Freq=0.04997GHz' Theta='46deg'	



Measurement in the far field

$$L = 2D^2 / \lambda$$



For single antenna station:

L= 3 m

For beacon antenna in Dourbes:

L= 22 m

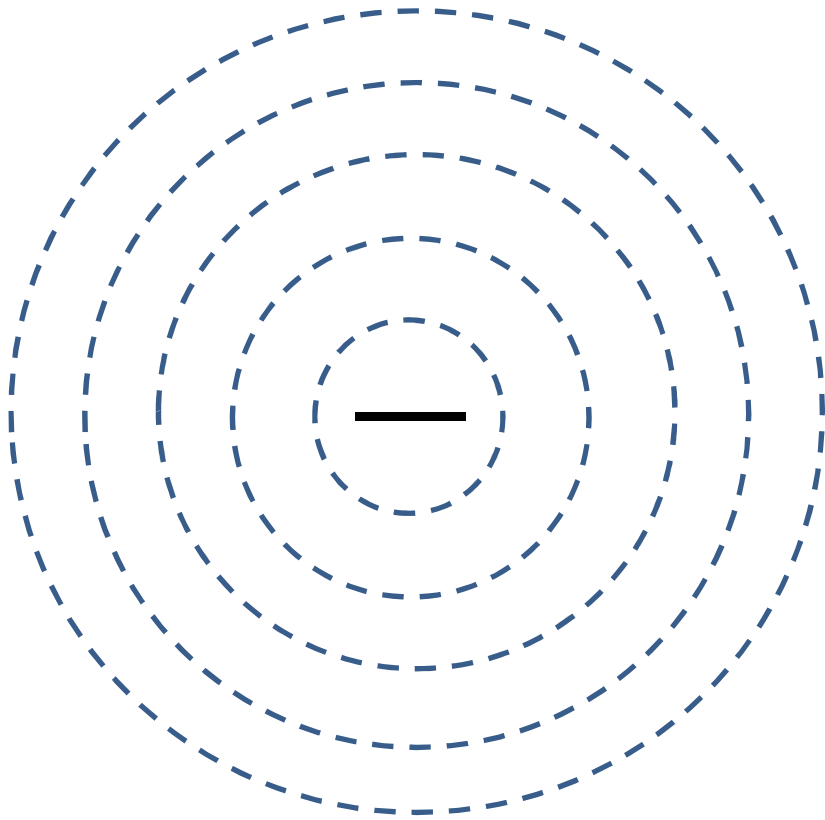
For interferometer:

L=243 m



3-D Radiation pattern measurement

Top View



Side View

