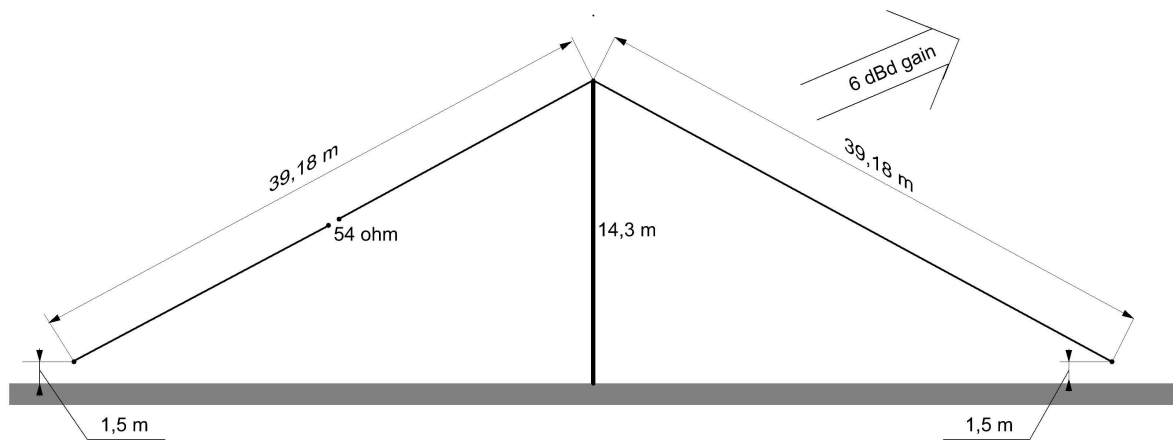


A Simple DX-antenna

Nearly ten years ago I made a QSO with PA0GMW, who was building a 4-square for 80 meters at those days. En passant Paul simulated a simple DX-antenna with an antenna program and offered me its dimensions. It is so engaging that I do publish it here.



The dimensions above count for 80 meters, say 3.63 MHz. It has a gain of 6 dBd at a vertical opening angle of 23°.

Of course these dimensions could be down scaled for the higher frequencies:

If the shortening factor is 5%, each dipole is $\frac{1}{2}\lambda$.

For 3.8 MHz the lengths should be: 37.50 m on a 14.3 m stake,

for 7.1 MHz the lengths should be: 20.1 m on a 7.1 m stake,

for 14.2 MHz the lengths should be: 10.04 m on a 3.5 m stake,

for 21.2 MHz the lengths should be: 6.72 m on a 2.38 m stake,

etc.

Be careful with these calculations. The lengths depend on the environment, as the soil condition.

8-3'13