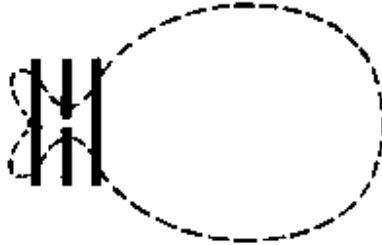


BALUNS

Balanced or Unbalanced...

Another widespread misconception is the impression that radiators of this type cannot be fed with an unbalanced line such as coaxial cable and still maintain a balanced radiator and radiation pattern. This is a fallacy as can be seen by the directional pattern reproduced in Fig. 4. This pattern holds essentially true for any beam at the frequency of maximum front-to-back ratio. However, the same beam at other frequencies may show characteristics of maximum forward gain. This, of course, will result in slight variation of the overall pattern - but pattern symmetry is still maintained!



In other words, a beam can be tuned for maximum forward gain at its resonant frequency and still show maximum front-to-back at another frequency within the band or bands. This is a fact not generally known to the Ham Fraternity.

MOSLEY TRAP MASTER beams do not require baluns or other balancing devices to provide a balanced radiation pattern. Baluns and similar devices only introduce loss and limitations. At the same time, the need for hard-to-handle open-wire or other special feed-line types is eliminated. Ordinary RG-8/U coax makes a highly satisfactory feed-line.