Let calculate added edge taper for upper and lower rim of Gibertini reflector. The added edge taper (AET) for upper rim is the same as AET for the basic paraboloid, from which the offset reflector is excluded. Basic paraboloid has dimensions

$$D_b = 2(H + D/2) = 1500 \text{ mm}, f = 502.5 \text{ mm}, f/D_b = 0.335 \text{ See Example 3}.$$

From nomograph 4, we can read $AET_{D_h} = 3.845 \text{ dB} = 2.4238 \text{ (ratio)}$

AET for lower rim is derived from reflector geometry shown in Fig. 3.1

$$D_{Lr} = 2\left(H - \frac{D}{2}\right) = 60 \text{ mm}, f = 502.5 \text{ mm}, f/D_{Lr} = 8.375$$

This value is not covered in nomograph, so we can calculate it using equation (4)

$$AET_{Lr}$$
 for lower rim is 7.74×10^{-3} after rounding = 0

So median AET for Gibertini reflector

$$AET = \frac{AET_{D_b} + AET_{Dr}}{2} = \frac{2.4238 + 0}{2} = 1.212 \text{ (ratio)} = 0.83 \text{ dB}$$

Let compare these calculated parameters with subsidiary prime-focus reflector.

Subtended angle for both reflectors SA = 70 deg, Gibertini mean AET = 0.83, subsidiary prime-focus reflector has AET = 0.85 dB, so almost the same value.

We can see, that without any calculation, just using nomograph, properly designed feed for subsidary primefocus reflector will work well for offset dish with the same SA.

If we have an access to an EM software, we can perform final adjustment