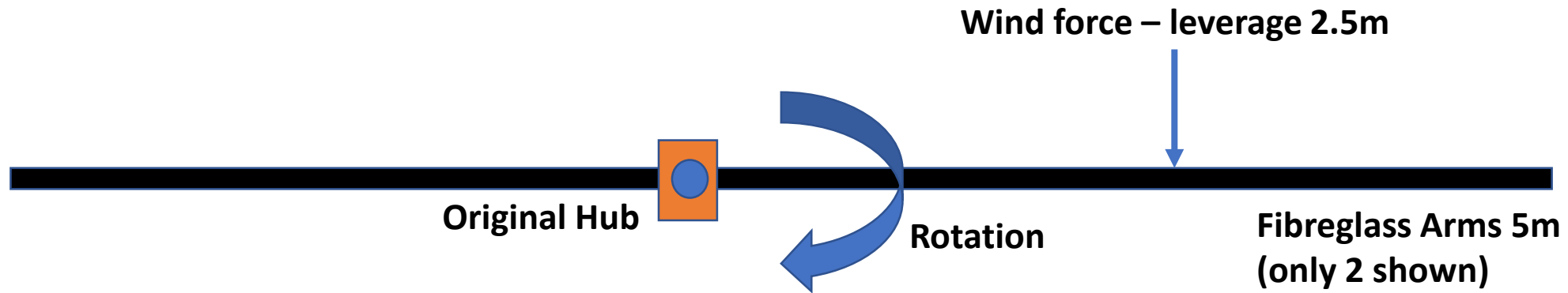


Spiderbeam Yagi Antenna

(Top View)

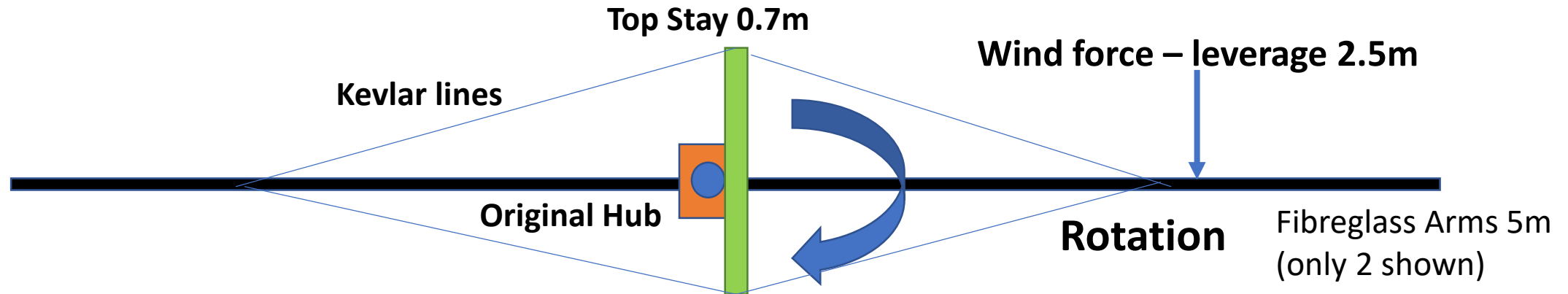


The Hub has to stop wind induced rotation,
The leverage resisting rotation is only mast radius – say 0.015 m
(167:1 . . . this is bad.)

Source: Tino Pavic, VK3EGN

Spiderbeam Yagi Antenna

(Top View)



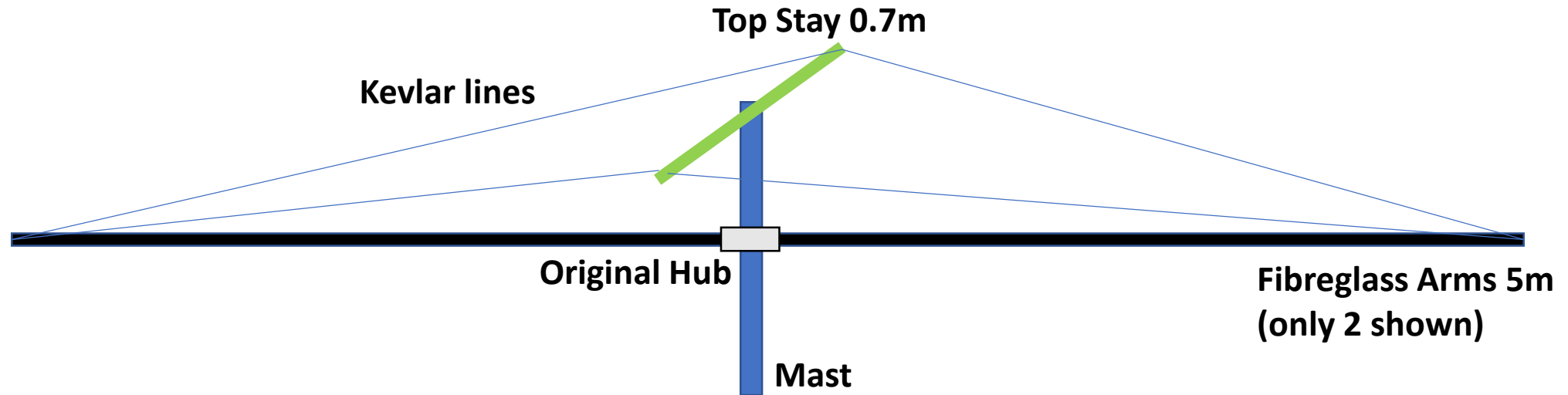
Top stay helps stop wind induced rotation,

- Leverage is now 0.35 m . . . (was .015)
- Leverage improvement is a factor of about 23!

Source: Tino Pavic, VK3EGN

Spiderbeam Yagi Antenna

(Side View)



Top stay helps stop wind induced rotation,

- Leverage is now 0.35 m . . . (was .015)
- Leverage improvement is a factor of about 23!

Modified Spiderbeam - Photo

Top Stay

Angle aluminium 35x35x3 mm, 0.5 to 0.7 m long.

Fit to mast – muffler clamp* (exhaust clamp) + aluminium sheet

Muffler clamp may not fit on mast perfectly.

Aluminium sheet 1 mm thick can be cut and wrapped around pipe.

Simple Hub

Angle aluminium 35x35x3 mm, 0.4m long.

Fit to mast – muffler clamp* (exhaust clamp) + aluminium sheet

Muffler clamp may not fit on mast perfectly.

Aluminium sheet 1 mm thick can be cut and wrapped around pipe.

Fibreglass fishing rods are attached using hose clamps.

(*Note: if possible, substitute stainless steel clamp.)

Source: Tino Pavic, VK3EGN



Modified Spiderbeam - Photo

Muffler Clamp*

Used on exhaust pipes of cars.

Once fitted properly, pipe will never turn.

Many sizes are available, but maybe not exact one to fit your mast.

Get one size bigger clamp, and aluminium sheet 1mm thick.

Cut strip from AL sheet, say 50mm wide, and wrap around mast.

Every layer adds 2mm to diameter of pipe.

(*Note: if possible, substitute stainless steel clamp.)

Source: Tino Pavic, VK3EGN



Modified Spiderbeam - Photo

Hose Clamp

Two hose clamps fit fibreglass rod into angle aluminium

