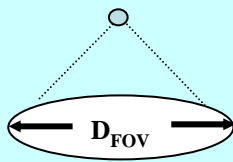


A Hologram is a **Matched Filter**, so



“how” you **“see”** is what you get

SAR's
Divergent
Illumination

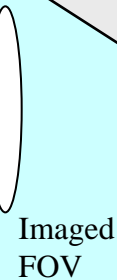


Small synthetic aperture = **lower** signal levels and much **higher** costs.

Hypothetical
2nd P.A.
Collimated
Beam

Matched
Filter

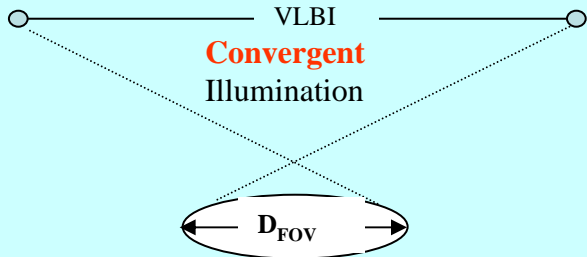
Divergent
Illumination has
Negative Gain



Divergent Illumination
= **negative** Gain is the
Problem since it enables
only **1** Power-Aperture

MIRIAH's VLBI \gg D_{FOV}

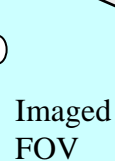
Convergent
Illumination



2nd P.A.
Collimated
Beam

Matched
Filter

Converging
Illumination has
Positive Gain



Convergent Illumination
= **positive** Gain is the
Solution since it enables
2 Power-Apertures