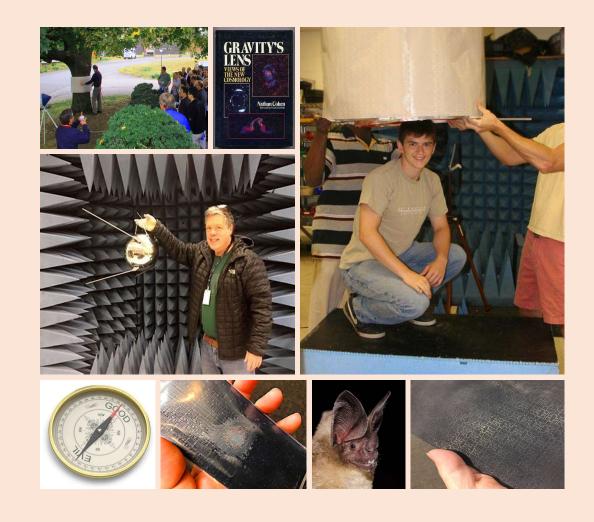
INVISIBILITY QUEST

BATS, CLOAKS, GRAVITY, & MORALITY: LESSONS FROM THE INVISIBILITY QUEST

Chip Cohen W1YW



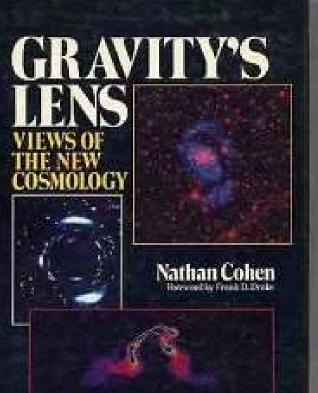


MILLIARCSECOND MORPHOLOGY OF THE TWIN QUASAR 0957+56A.B: THE VIEW THROUGH A GRAVITATIONAL LENS By Nuthaniel L. Cohen, Ph.D.

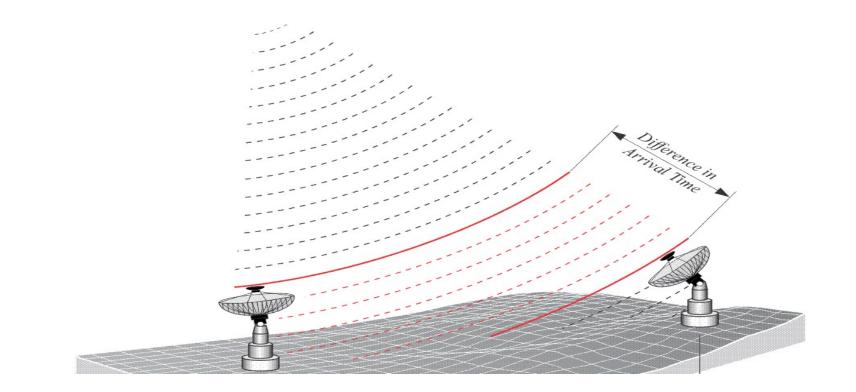
Cornell University, 1985

ILBI observations were made on 15 March 1981 at 13 cm of the the Twin Quasar 0957+564,8. These observations probed the milliar (mas) structure of the Twin Quasar and its angular environs, with Jansky sensitivities.

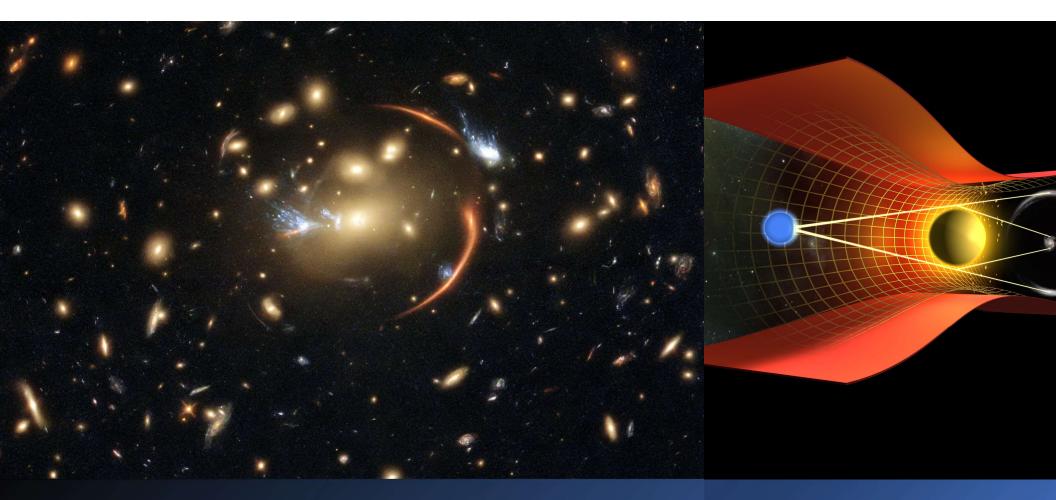
These observations yielded the first detailed studies of imag gravitational lens, confirming the existence of the phenomenon on scales. The main results include the following: 1) the brightnes distribution of images A and B can be related with a linear transf 2) any other compact radio images must be less than 1/30 the inter image B, 3) the extended (arcsecond) jet found in image A does not in image B, 4) a time delay between the two images may be apparent A and B cores are compared, with A following B, 5) a compact, weak source, G, exists at the position of the center of the CD galaxy is to be part of the lens and is likely to be its radio core, and 6) relative positions of G, B, A have been found with statistical er less than a mas, with positions (G = (D, O)) of A - G = (1071, 50 and B - C + (-181, -1009) mag.



Q: Who Am I?



A: Imaging (arrays)and Sensors...a Curious Cat!

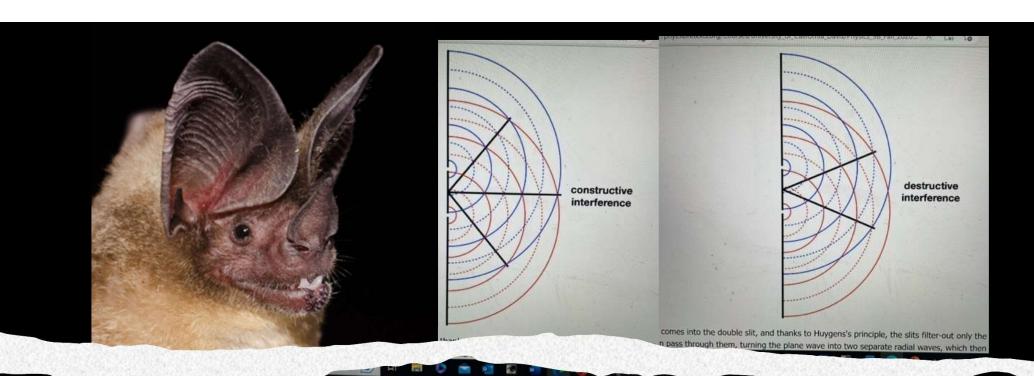


Cosmic 'Front scatter'

Nature has plentiful and FASCINATING Imaging/Sensor Problems for discovery and use!

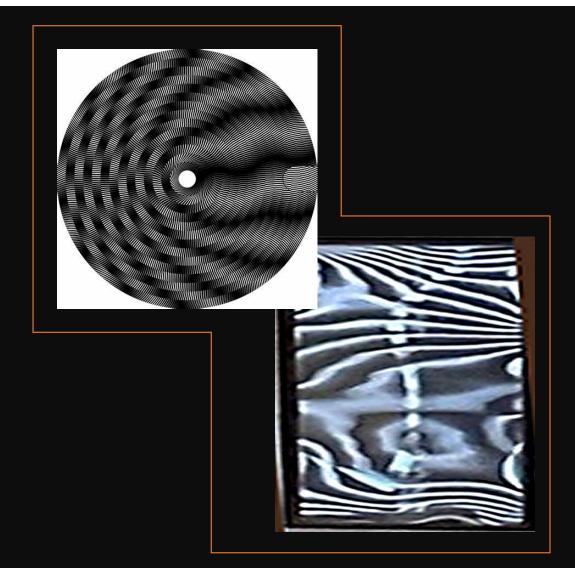


Double Slit: **Two element array via NOSTRILS!** *1986 paper (MS) REJECTED by NATURE*



MOIRE IMAGING:

Ultrasonic light and shadow to catch MOTHS

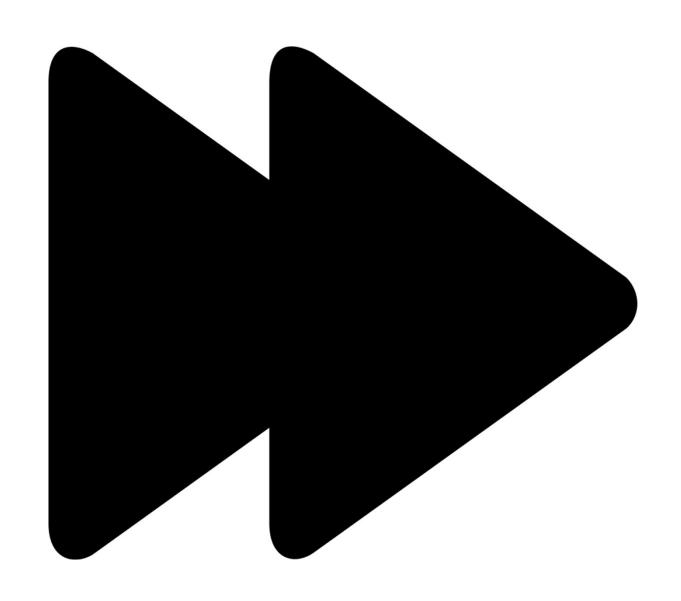




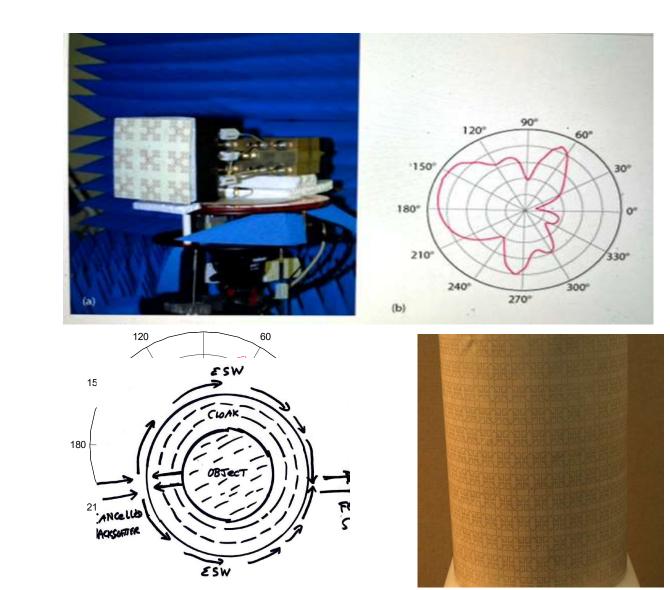
1986 MS predicted invisibility' ability by moths



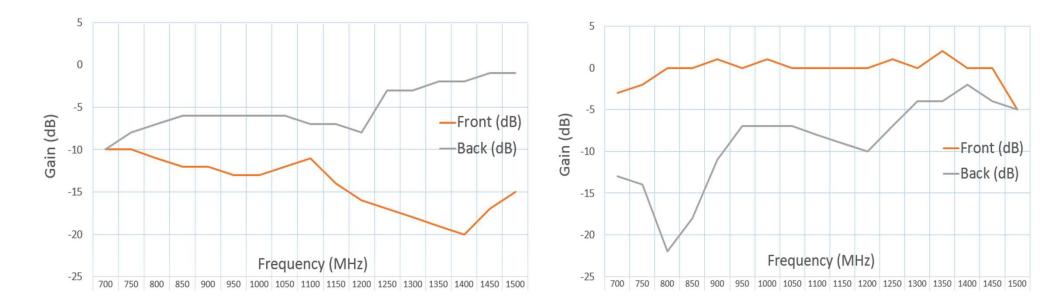
FAST FORWARD to 2002... FRACTAL ERA



CLOAK...In Hiding



Triumph of Front Scatter

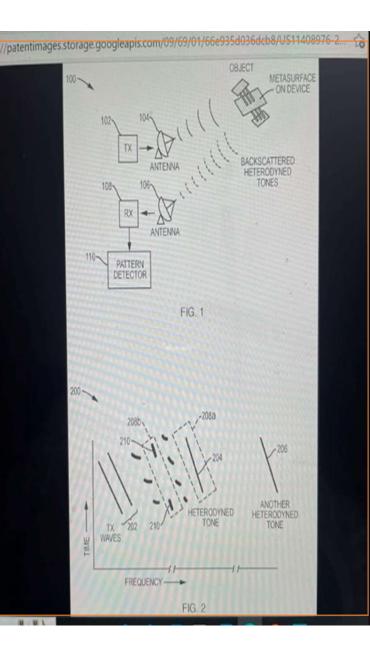




Getting out the Word

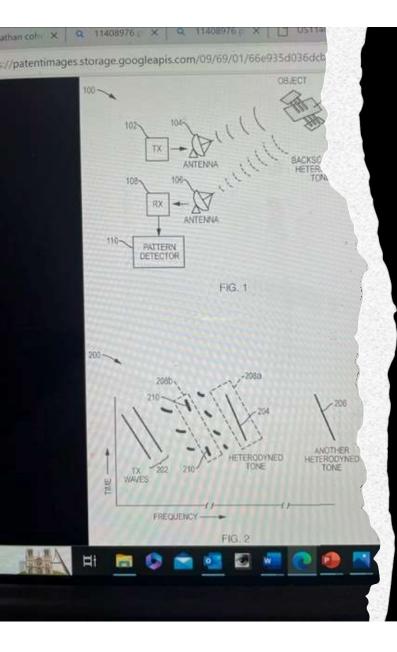
ser wante CCTV Scenario....201 •

Point...Counterpoint





IMPROVE THE HUMAN CONDITION



MORAL COMPASS:

"Plan for, and mitigate destructive uses of the invention"

Thanks and 73!