



Zoom sessions with Steve Shore

Season 2 – 16/01/2026



Credit: Maja Petric

TRAITE
DE LA LUMIERE.

Où sont expliquées

Les causes de ce qui luy arrive

Dans la REFLEXION, & dans la
REFRACTION.

Et particulièrement

Dans l'étrange REFRACTION

DV CRISTAL DISLANDE,

Par C. H. D. Z.

Avec un Discours de la Cause
DE LA PESANTEUR.



A L E I D E,

Chez PIERRE VANDER A A, Marchand Libraire.
M D C X C.

OPTICKS:

OR, A

TREATISE

OF THE

REFLEXIONS, REFRACTIONS,
INFLEXIONS and COLOURS

OF

L I G H T.

ALSO

TWO TREATISES

OF THE

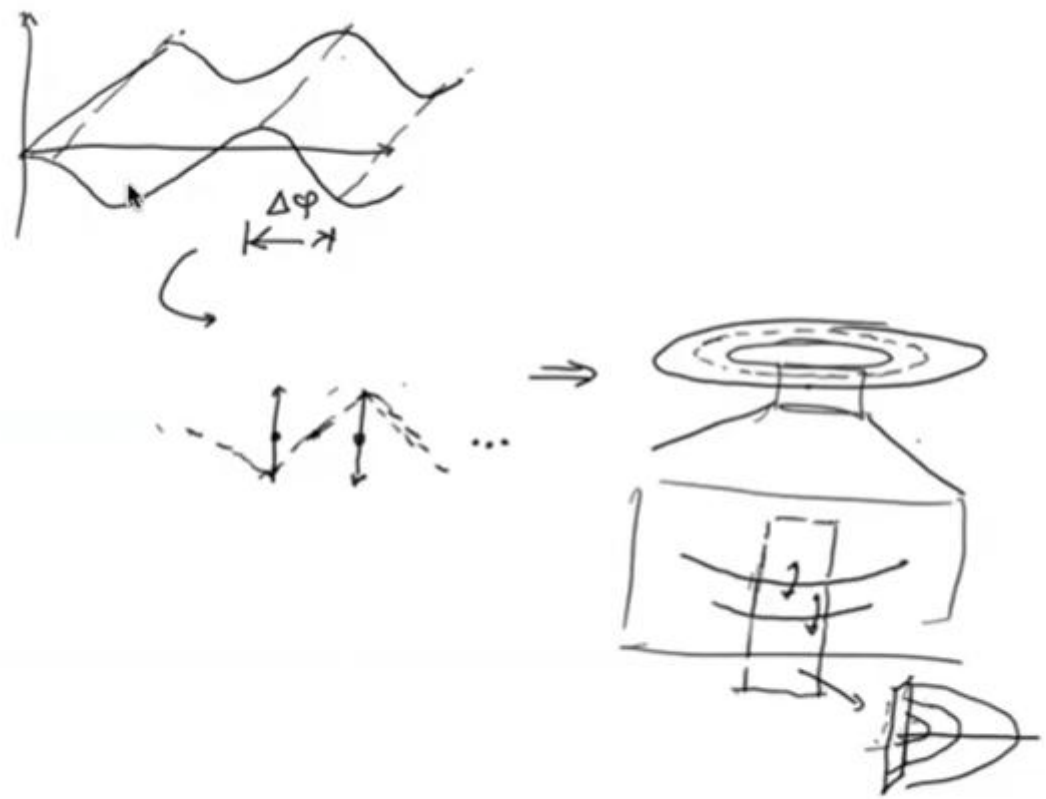
SPECIES and MAGNITUDE

OF

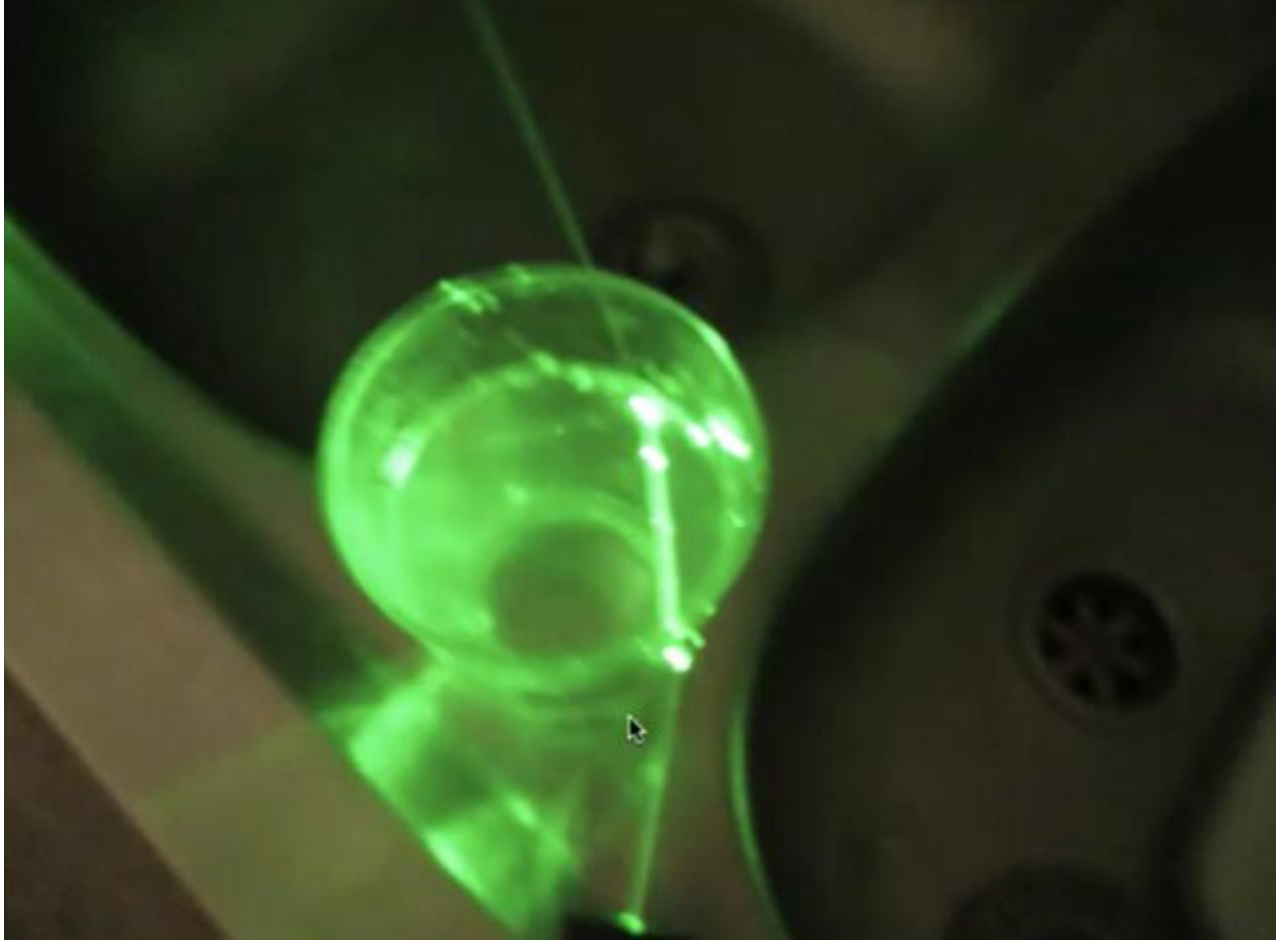
Curvilinear Figures.

L O N D O N,

Printed for SAM. SMITH, and BENJ. WALFORD.
Printers to the Royal Society, at the Printer's Arms in
St. Paul's Church-yard. MDCCIV.





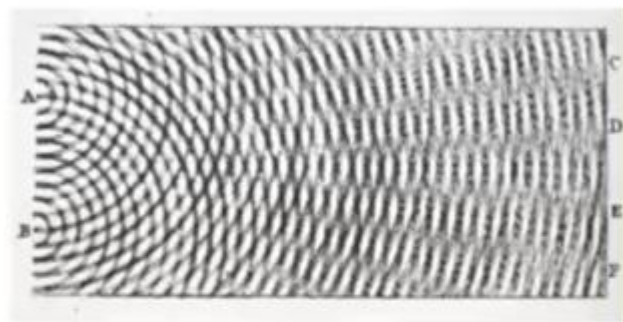


II. *The Bakerian Lecture. On the Theory of Light and Colours.*
By Thomas Young, M.D. F.R.S. Professor of Natural Philosophy in the Royal Institution.

Read November 12, 1801.

ALTHOUGH the invention of plausible hypotheses, independent of any connection with experimental observations, can be of very little use in the penetration of natural knowledge; yet the discovery of simple and uniform principles, by which a great number of apparently heterogeneous phenomena are reduced to coherent and universal laws, must ever be allowed to be of considerable importance towards the improvement of the human intellect.

The object of the present dissertation is not so much to propose any opinions which are absolutely new, as to refer some theories, which have been already advanced, to their original inventors, to support them by additional evidence, and to apply them to a great number of diversified facts, which have hitherto been buried in obscurity. Nor is it absolutely necessary in this instance to produce a single new experiment; for of experiments there is already an ample store, which are so much the more unexceptionable, as they must have been conducted without the least partiality for the system by which they will be explained; yet some facts, hitherto unobserved, will be brought forwards, in order to show the perfect agreement of that system with the multifarious phenomena of nature.



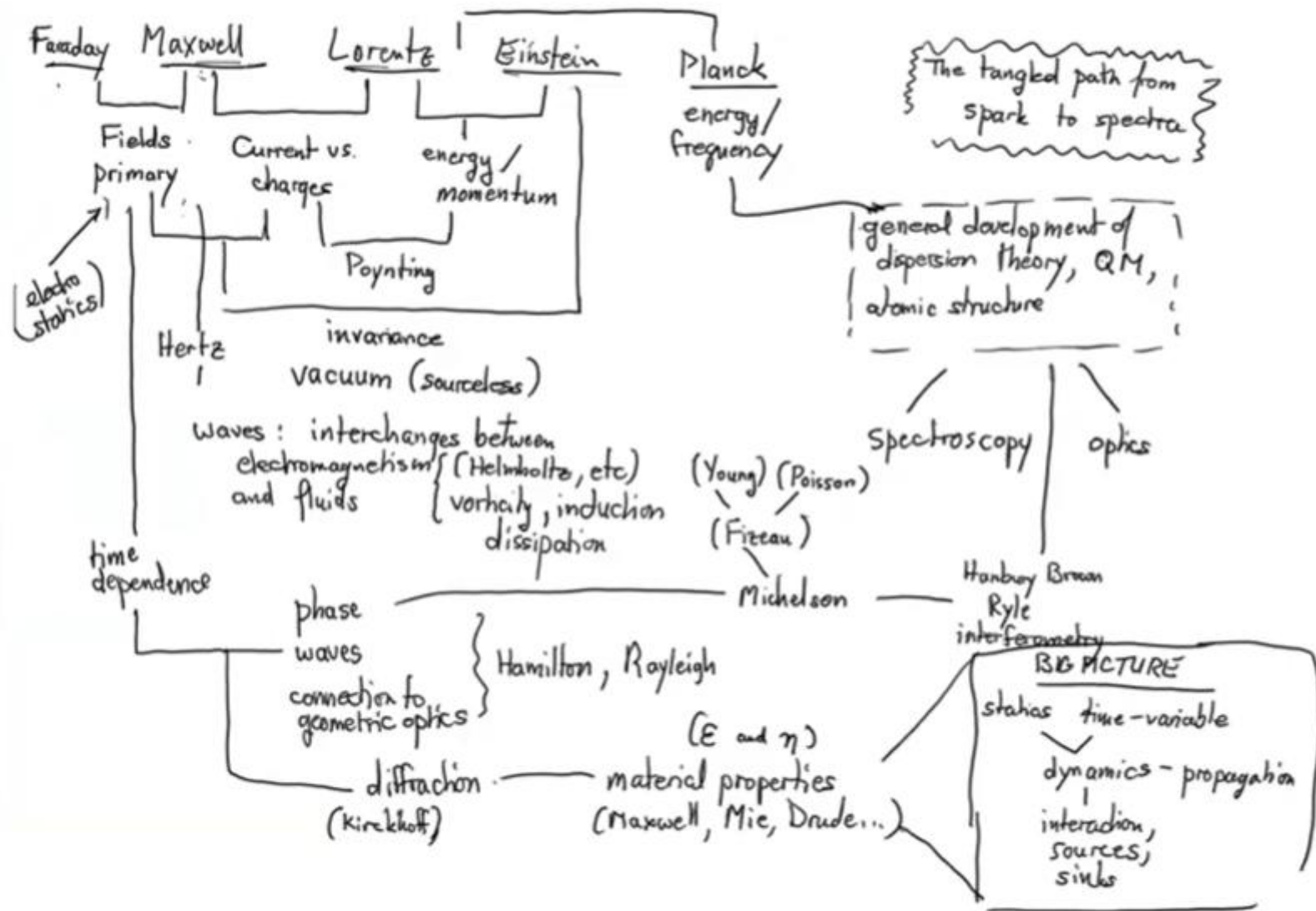






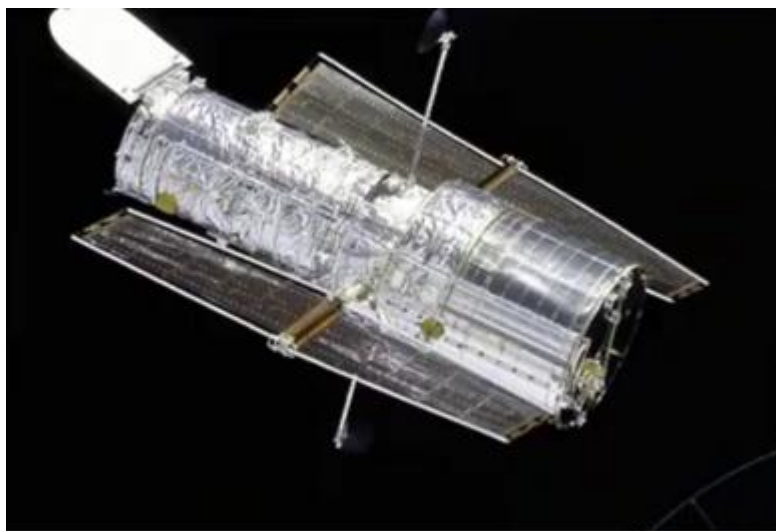




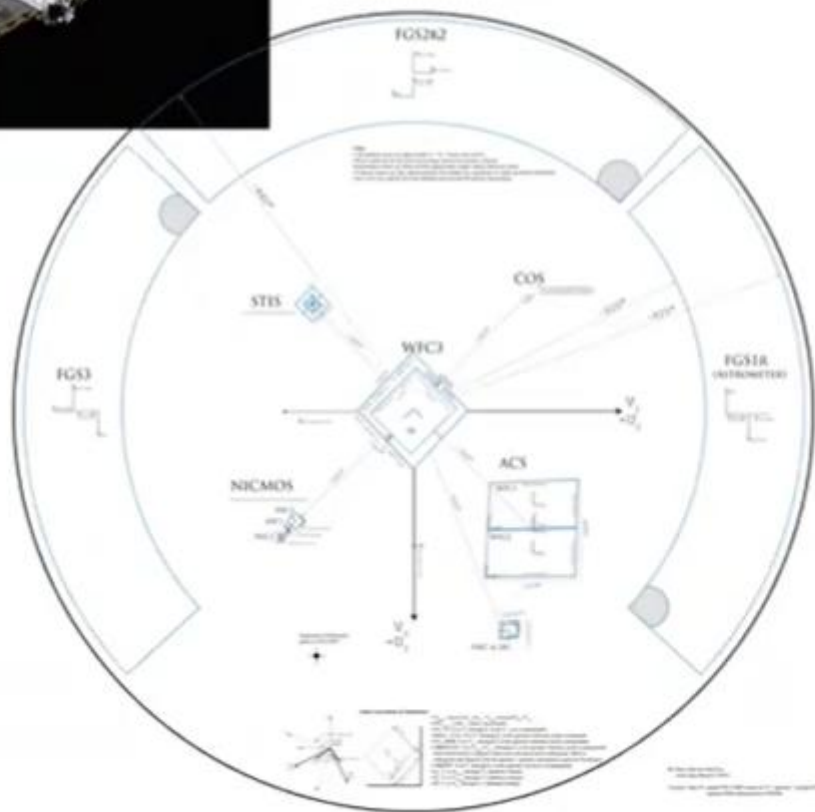


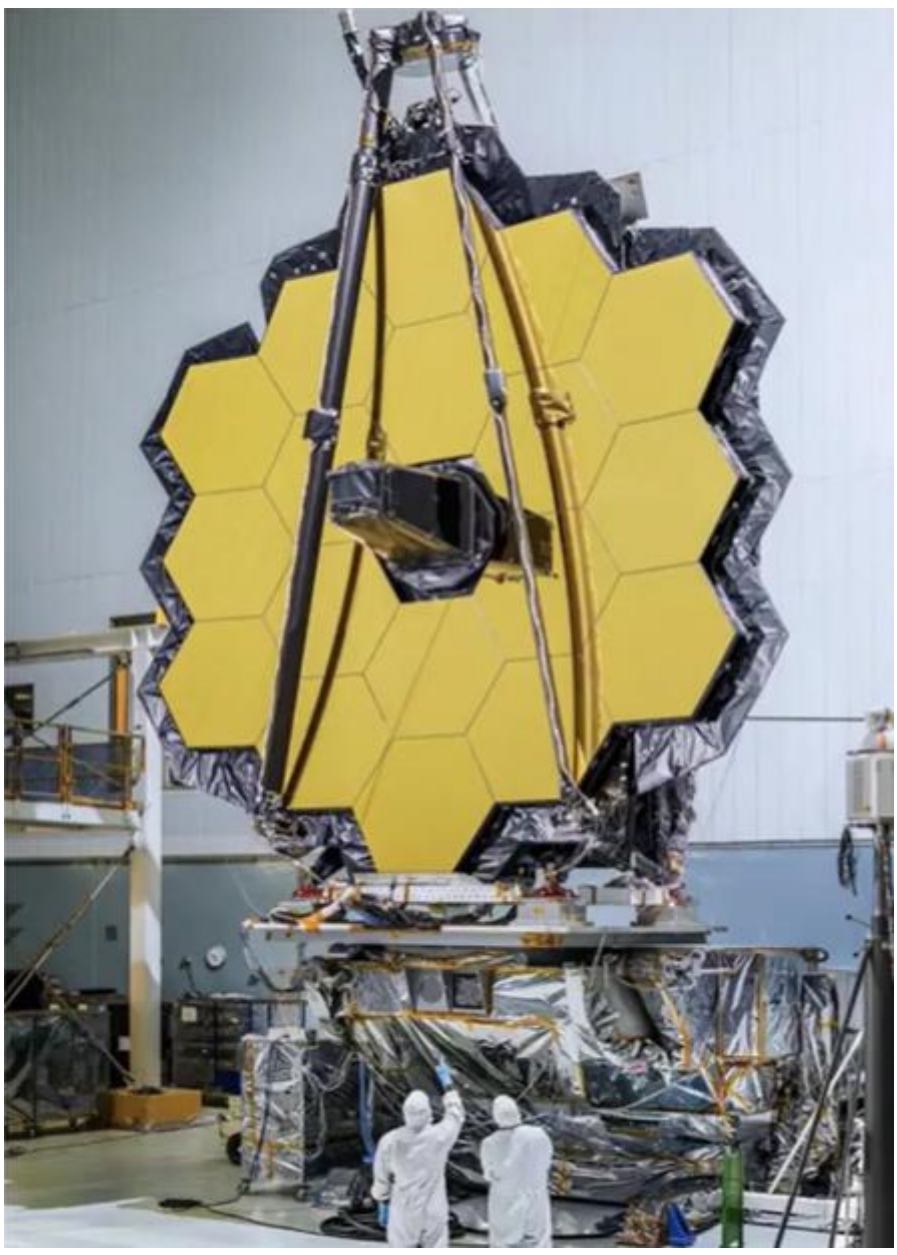


A thought for **Ricky**



HUBBLE SPACE TELESCOPE FIELD OF VIEW
POST-SMA CONFIGURATION









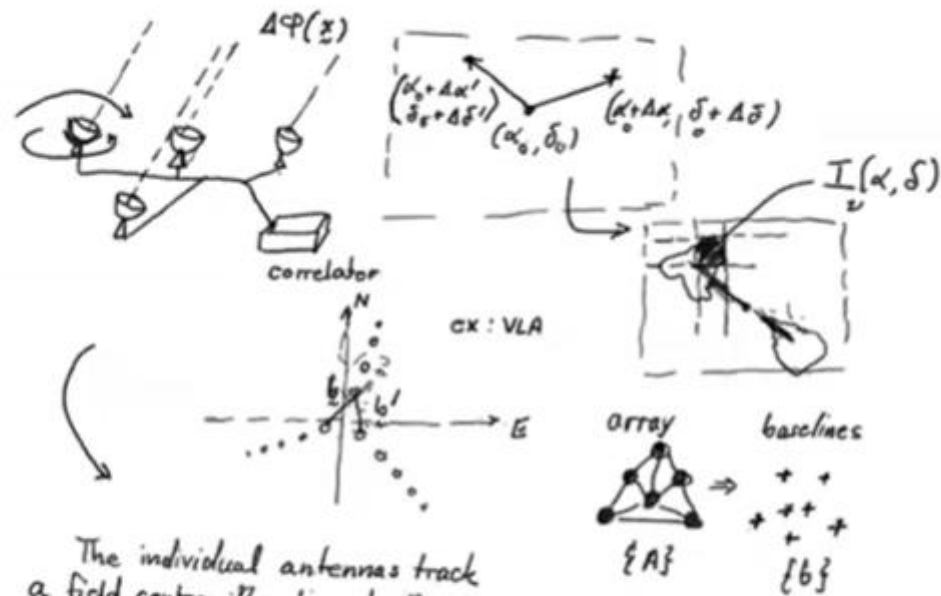


Arecibo: 300 meter

FAST: 500 meter



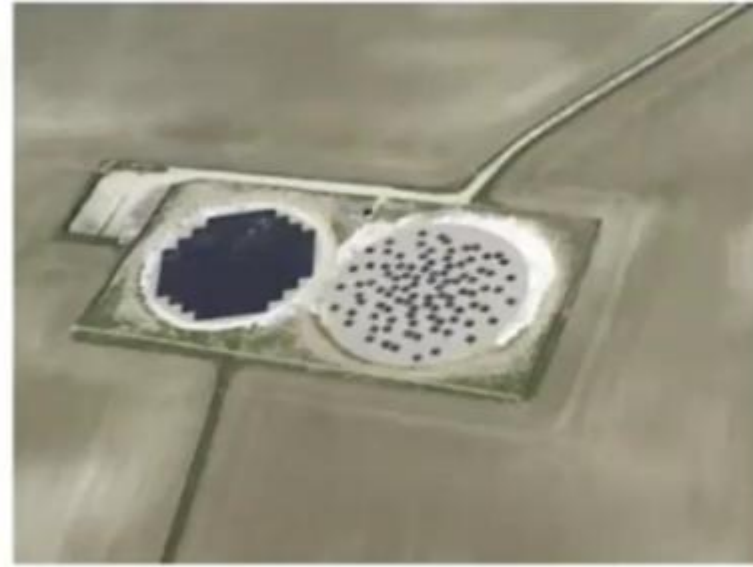




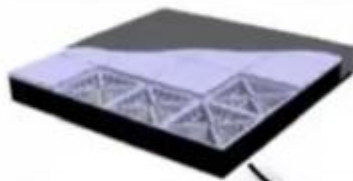
The individual antennas track a field center, the lines to the correlator are adjusted by a control pointing to remove that delay (and flat field the array) so only $(\Delta\alpha, \Delta\delta)$ [small angle limit] remains





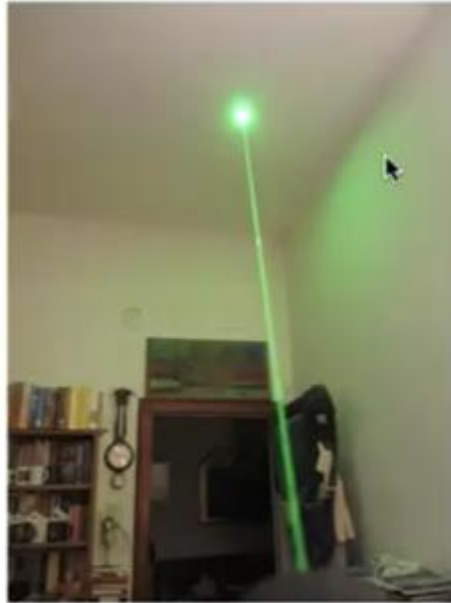
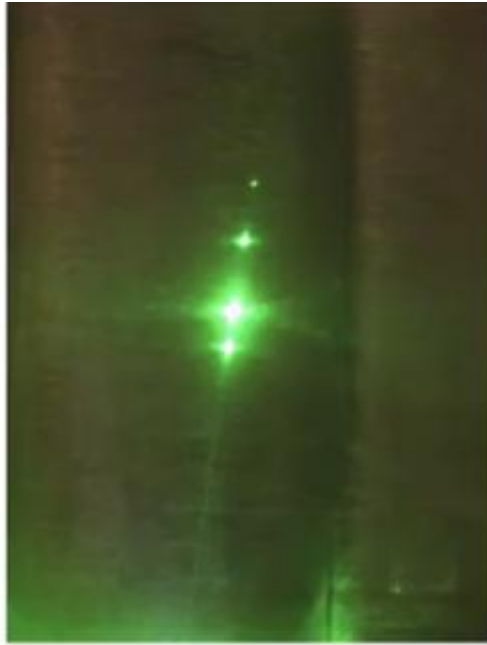


**High-Band Antenna
(HBA)**



**Low-Band Antenna
(LBA)**





SPECKLE INTERFEROMETRY: DIFFRACTION-LIMITED MEASUREMENTS OF NINE STARS WITH THE 200-INCH TELESCOPE*

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 Received 1972 February 7

ABSTRACT

A new method has enabled us to repeat most of the classical Michelson-Pease measurements of stellar diameters. Stellar images are photographed "coherently" with a special camera. They contain a fine structure from which diffraction-limited information is extracted by optical processing. Nine of the stars observed were resolved, showing angular dimensions as small as $0''.016$. Limb darkening is evidenced in α Ori, and a faint companion is found for β Cep.

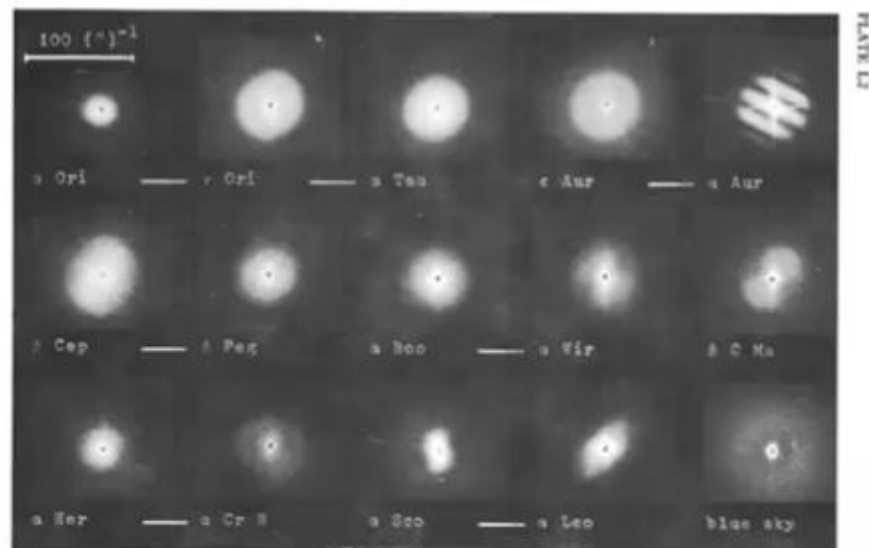
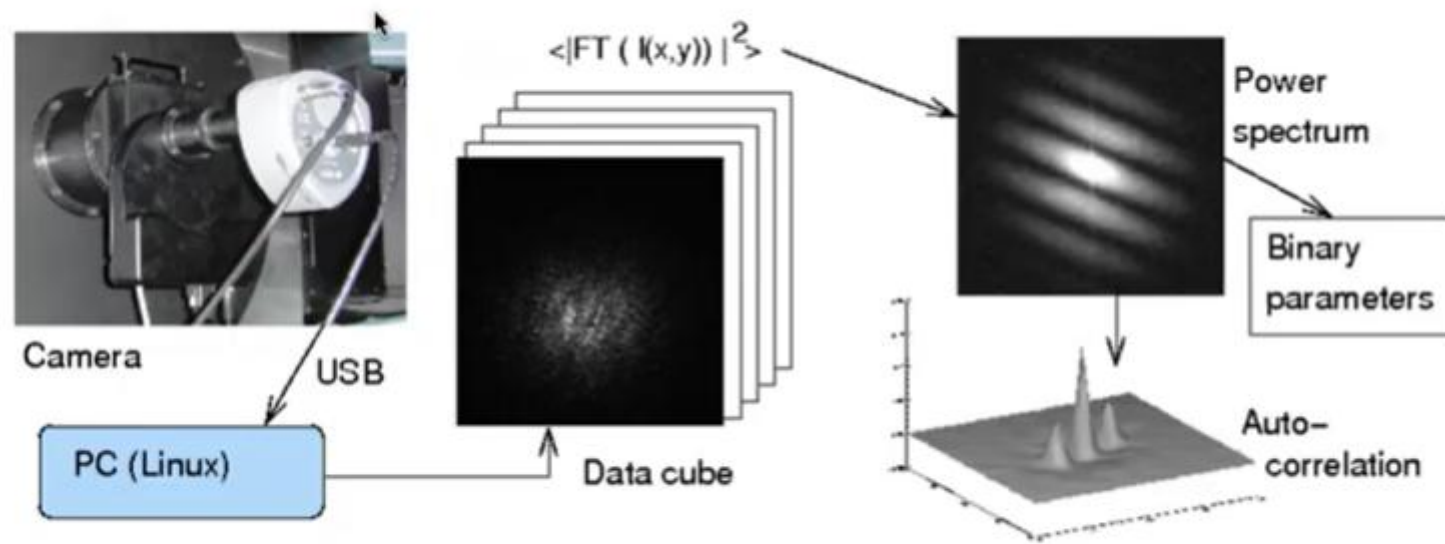


FIG. 2.—Composite Fourier transforms, showing resolution of six stellar disks and two bisectors. Object-reference pairs are indicated by a bar. The alteration in the case of β CMa is believed to result from telescope aberrations. The "blue sky" transform shows the effect of pure photon noise granularities.

GEZARI et al. (see page L1)

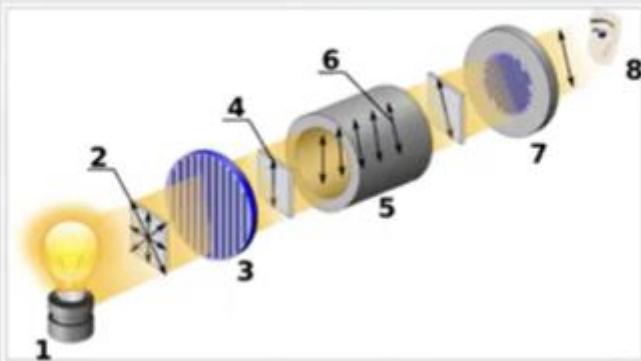












Operating principle of a [polarimeter](#) for measuring optical rotation.

1. Light source
2. Unpolarized light
3. [Linear polarizer](#)
4. Linearly polarized light
5. Sample tube containing molecules under study
6. Optical rotation (dextrorotatory, $\sim 30^\circ$) due to chiral molecules
7. Rotatable [linear analyzer](#)
8. Detector

