

To read: { 1. Compton = through  
Diffuse matter { 2. Bragg: X-Rays & crystal structure

Mrs. Lonsdale's Report: Prof's papers:  
Note various pts to discuss with: (1) Mott (2) Jahn (3) Mrs L. (4) Born

2. Thermodynamics Fermi; Planck;
3. Low temp. Phys: = Pukemann
4. Superconducting.

Writing book on 1. Light Scattering  
2. Magnetism  
3. Modern Physics.

Before leaving = get reprints paper Complete I to III new series  
II + III of old series

Write up { Adharcade lectures  
Ripon "  
Patna Univ. lectures

Presidential Address = Nat. Academy = Udaipur.  
Se. Congress? Metals;

16

Phenomena observed in Christiani's experiment.

17

~~The~~ Colours of edges of Chlorate of potassium Crystals.

18.

Trevelyan's Rocain's law

19

Direction of lightning discharges.

20

Hardness by scratching

21

Theory of Wet & Dry  
Gulls Hypromela

22

Diffraction by Wood-films &  
films of micro-organisms. See  
South Africa Journal of Science & Medicine  
April 1920

- 23 Theory of Achromatic Interference
- 24 Deep Ripples
- 25 X-Ray reflection glancing angle
- 26 Talbot's Bands of Lamm. Plate  
plate
- 27 New method of observing Talbot's Bands
- 28 Koch's Helium lines no  
Zeeman effect
- 29 Spectra of Procyon in the Sun
- 30 Simpson's Experiment in  
Theory of Thunderstorms

+ Vortices

(48)

Ripples on Soap Films.

(49)

Dust - Figures produced by electric sparks.

(50)

Optical properties of liquid emulsions.

(51)

Oscillations of spheroidal drops.

(52)

Scattering of light by Sulphur emulsions.

(53)

Achromatization of interferences by Prisms + gratings

(54)

Flute

(55)

Upper Air - movements

56

Ripples on Rotating liquid

(57)

Preparation of organic crystals like  
Salicine, Benzoic acid

(58)

Marcel sounds produced by  
empting a column of water  
through a small orifice

(59)

Quantum of Gravitation Constant  
(Relativity?)

(60)

Oscillations of jets etc.

61

Effect of Magnetic field on  
Surface-tension of liquids

62

Colours of Helvogenus fibres (beaten  
on, Sat. Ammonia, Sulphur etc.).

63

Pachem's infat red series of  
Hydrogen