

but it is always difficult
to arrange for the autumn
as people want to shuffle
off the tools of the rest
of the year in the summer.
The more gratitude to those
who will write -

Yours sincerely
W. Forster

Lichfield Rd
New.

7/44

Dear Prof. Fitzgerald

Very many thanks

for your letter - I am
more than delighted to
be able to put in
"Zermain effect & dispersion"
in our next issue -

I believe we are going
to get a good number

Zeeman effect an effect on frequencies
must therefore change dispersion

How explanation of Faraday effect
neg. F effect ~~This has been theory of F eff. (?)~~

Helmholtz & Stokes effect.

How now about gyroscopic effects?

Shows that some gyroscopic action in
all electromagnetic effects

e.g. Larmor & absolute twist - explained
by gyroscopic properties of ether.

$$16 \times 10^3 \times 60 \times 10^6$$

$$= 1000$$

$$17,000$$

$$59 \times 10^{10} \text{ cm.}$$

$$.59 \quad \text{h} \text{h} / \text{K}$$

General description of effect of magnetics
on transmission of light - Faraday effect
a very minute effect.
Necessity for matter
Varies ^{as} ~~inversely~~ of wave length

of the nature of dispersion

Explained as gyrostatic effect

Rotation of matter or something
connected with it not of ether

Hall effect

Kerr effect

Pos & neg. media.

Diamag. and Paramagnetism

Theories of Dispersion - Cauchy

Fluorescence

Ultraviolet absorption

X-rays

Resonant Theories

Frequencies possible

Spectral lines

Connection between two disp. theories

So far already known

General description of Zeeman effect

Primary & Secondary effects

Lorentz's Theory of ~~Primary~~ effect

Secondary effects & continuous spectrum

Schuster's letter
made up of...