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# On the Dynamics of a Spherically Symmetric Molecule

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seen at all angles and consequently appearing as ellipses. A very remarkable oval is seen at right ascension 20 hours 51 minutes, declination plus 45. This has a major axis of 20 minutes pointing to position angle 350 degrees, and a minor axis of 12 minutes. It is very certain that the object described is the ring nebula."

DRAKE MUNICIPAL OBSERVATORY,
  DES MOINES, IOWA.

### THE PHOTOGRAPHIC ACTION OF IRRADIATED COD-LIVER OIL

#### JAY W. WOODROW AND G. M. WISSINK

We have previously reported the results of experiments on the photographic action of irradiated oils. This paper gives the results obtained with various arrangements of the screens and the receptacles for the irradiated cod-liver oil.

IOWA STATE COLLEGE,
  AMES, IOWA.

### ON THE DYNAMICS OF A SPHERICALLY SYMMETRIC MOLECULE

#### J. V. ATANASOFF

An attempt is made to postulate a molecular type which bears some relationship to the known facts of monoatomic molecular structure, yet which is simple enough to allow its kinetic theory to be worked out. The molecule chosen consists of a positive nucleus, surrounded by a negatively charged spherical shell. Developments of the distance-force relationship, and of an equation of state are given.

IOWA STATE COLLEGE,
  AMES, IOWA.

### DEPARTURE FROM HOOKE'S LAW IN THE TORSION OF RODS

#### GEORGE SINGER AND EDWIN STEELE

In an experimental study of the behavior of an iron rod fixed at one end and subjected to torsion at the other it was found that there is a marked tendency of the rod to remain in the state of