

Physics. — „*On a simplified theory of the electrical and optical phenomena in moving bodies*”. By Prof. H. A. LORENTZ.

(Will be published in the Proceedings of the next meeting).

Physics. — „*STOKES' aberration theory presupposing an ether of unequal density*”. By Prof. H. A. LORENTZ.

(Will be published in the Proceedings of the next meeting).

Physics. — „*Measurements on the system of isothermal lines near the plaitpoint, and especially on the process of the retrograde condensation of a mixture of carbonic acid and hydrogen*”. By Dr. J. VERSCHAFFELT. (*Continued*). (Communication n<sup>o</sup>. 47 from the Physical Laboratory at Leiden by Prof. H. KAMERLINGH ONNES).

#### § 5. *The course of the plaitpoint curve.*

Two other mixtures  $x = 0,0995$  and  $x = 0,1990$  were investigated in the way described in § 2. But in the case of these two mixtures the investigation could not be made so completely as in the case of the first mixture. For  $x = 0,0494$  we could trace the isothermals pretty far above the plaitpoint-pressure; but for  $x = 0,0995$  the plaitpoint was situated towards the end of the series of observations, and for  $x = 0,1990$  the observations could only be made till near the critical point of contact. By means of these observations, the results of which are communicated in the tables III and IV, we can derive some information regarding the course of the plaitpoint curve in mixtures of hydrogen and carbonic acid in the neighbourhood of pure carbonic acid.