

Astronomical Society of South Africa  
 Cape Centre - 17<sup>th</sup> Session 1930-1

The fourth Ordinary Meeting of the Session was held at Benson House 57a Long Street on Wednesday December 10 1930 at 8.15 pm Mr. H. Horrocks in the Chair - there was a good attendance.

Minutes of Meeting of November 12 1930 were read and confirmed.

The Chairman extended a welcome to Dr. H. Halm. He assured Dr. Halm of the appreciation of the members of his attendance after a lengthy absence.

Dr. Halm then addressed the meeting on "Determining temperature, density & pressure of stars". He described a system proposed by some one to find the quantities and gave a formula which was found to meet the requirements. He did not think Lane's theory had received the attention it merited, and it was now largely displaced by the Radiative theory proposed by Eddington. Since his retirement he had found time to investigate these theories to find which theory met the facts of observation best. He found that in every instance the theory of Lane met the requirements of observation while that of Eddington did not. He exhibited a <sup>graphic</sup> diagram to show that his researches indicated that the stars formed an evolutionary sequence. A number of other diagrams were exhibited to illustrate the lecture, and many more were drawn on the blackboard.

After several questions had been answered a lengthy discussion took place in which the Chairman Dr. H. Spencer Jones & Dr. Halm were the principal speakers. Mr. Long proposed a vote of thanks to Dr. Halm which was carried with acclamation and the meeting terminated.

H. Horrocks

16 March 1931