## A New Nebula. By the Rev. T. E. Espin, M.A.

On January 18, while looking for new double stars, I came across a bright nebula, which, as far as I am aware, is an unrecorded object. It was estimated to be about 5" in diameter and elongated north. On January 27 the nebula was seen for a few moments between clouds. On February 1 it was well seen, a conspicuous object, and equal to a 10 magnitude star. The elongation was very marked, and sometimes it looked like two nebulæ. The measures gave—

Major Axis 6.35 Minor Axis 6.35

The major axis was found to be roughly at position 10°5. A small star was noted Sp. On February 11 the position was determined from  $B.D+33^{\circ},746$ . It was found to precede this star by  $7^{\circ}.80$ , and to be 2'25'' south of it. On February 18 what appeared to be a star or nucleus was seen north and measured. It was also seen on February 22 and February 23, and measures made of it with great difficulty. The later observations seem to suggest a planetary nebula, with a small star at the northern edge. The following are my measures of the two stars near the nebula:—

Neb. and star A:—

1907.1314	P 14'9	D 4.10		Mag. 13'0
1424	13.3	4.75		
1451	13.3	3.90		
Mean 1907:140	13.8	4.25	3 nts.	

Neb. and star B:—

1907 0849	244.6	16.42	Mag. 12.0
1314	244.3	17.02	
1424	245.3	12.00	
1451	238.4	17.02	
Mean 1907.126	243'I	16.69 4	nts.

The place of  $B.D + 33^{\circ}.746$  for  $1855^{\circ}$  is—

$$a = 3^h 47^m 14^{s}.89$$
  $\delta = 33^{\circ} 29' 14''.7$  (Bonn Obs., vol. vi.)

Professor Burnham observed the nebula with the 40-in. of the Yerkes Observatory on February 20 in moonlight and a sky not clear, and measured the star B as follows:—

and also found for  $B.D + 33^{\circ}.746$  and neb.