

The internal motions of the Spiral of Canes Venatice.

BY REV. A. C. RIDSDALE, M.A., F.R.A.S., ETC.

For the last twenty years a series of photographs have been taken at the Russian Observatory of Pulkowa, with exposures of from 47 minutes to 3 hours. From these photographs the extraordinary fact seems to have been ascertained that the motions of 36 conglomerations or knots of the spiral are possessed of a systematic character, relatively to the centre of the nebula. Namely, that in general the exterior parts of the spiral rotate about the centre directly and the interior parts rotate indirectly. The proper motions of these knots range from 0·04 seconds to 0·05 seconds.
