NOTE ON A NEW MODIFICATION OF DOUBLE COLOUR

By J. RHEINBERG.

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I should like to bring before your notice, this evening, a new modification of double colour illumination suitable for high power.

Similarly as with low-power colour illumination, on the dark-ground principle, one of the ordinary colonic solour discs, having a central spec of one colour, narrounded by a ring of a strongly contrasting, and in this case perfectly complementary colour (e.g., red centre and green periphery) is placed in the substageous condenses, and by means of the irit displaring the relative proportions of the two colours are so regulated that on looking through the microscope the light appears to be neverth efficient.

But atthough the background appears neutral tinted, a saitable object will be some colored, in the tel coloured differently in its various parts, as, according to their form and position, they will pike up a reproduceance of one or other of the two colours by which they are illuminated. To give a single concrete example— It is possible to light up a distance to that the secondary structure may appear in one colour and the primary structure in another, both bolicy were distinct as the same time.

Differential colour limination by methods hitherto described has been confined to the use of cones of light either greatly according the spectrum of the objective used (vic. on the darkground principle), or very much smaller than the objective spectrum of the objective spectrum of the objective spectrum (vic. on the diffraction spectrum), but is will be observed that the particular modification described this ovening permits of the use of the illuminating cone ordinarily employed. Each of the use of the liminating cone ordinarily employed. Each

microscopist may use his own favourite cone.

It will also be observed that diffraction plays but a quite
substidiary part in this method as far as the colour effects are
concerned, so that no untoward results on this score need be
franced.