

Results : Comparison of the results of these experiments with those of the similar experiments in white light shows some very interesting points of difference.

(1) With a considerable number of combinations no lustre appeared, no matter what the difference of intensity. (The limits were from equality to a ratio of 1 to 720). This seems difficult to account for, the more so as there is not very much regularity as to the colour combinations with which the lustre appears or fails. On the whole, it may perhaps be said that in most of the cases where no lustre appears the colours are either somewhat near each other in quality, so as to mix readily, or else are nearly complementary, so as to produce the strongest rivalry. The number of experiments, however, was not great enough, nor the regularity of the results sufficient, to make this induction conclusive.

2. Lustre does occur in many cases with smaller differences of brightness between the two retinal impressions than were required with uncoloured light to produce it. As before observed, when "good" lustre was once seen it continued till the disc was opened to its fullest extent. And in some cases, as when, for example, red was behind the disc and green on the other side, this meant that the intensities were practically equal. The lustre was frequently reported as "good" or "decided" when the intensities of the images were about as 3 or 4 to 1. With uncoloured light, on the contrary, no lustre at all appeared unless one retinal image was from $1\frac{1}{2}$ to 3 times as bright as the other; and "good" lustre required a ratio of at least 9 or 10 to 1.

3. Lustre does not occur with as great differences of intensity in coloured as in uncoloured light. That is to say, the upper limit is much lower with coloured light. The lustre was scarcely ever good when one impression was more than 10 or 12 times as bright as the other, and a ratio of about 50 to 1 is the extreme upper limit for the appearance of any lustre at all. With uncoloured light, on the other hand, the upper limit for good lustre varied from 375 to 920 to 1 and for any lustre at all the upper limit was about 1900 to 1.