 Tha meohaniom of these grand ateliar

 mostion of our sun through ppaeo.- -lloe
of a
 mautr.
to the
Rill of of (Oodion
Labirs and Gentiaflan-1 endeavorsd 1o auplatin in my lem fieture what light
 Fhich comppoee this vast uaiveres, are not through oppeoe, but are thrown logether
late ofingle groupe or olumers, a fow of Whieh hive boope analy sed by, the teles.
oope. TTe morna of mome of thene groupe, as unfolded by the powroer of thoeso mighty
instrumata, are
anersinly moot strange. not, they foroibly inmproes upon us the iden
ins
Pa ane at a phesomenon whose ontire oomplete-
nithen, not diaplayed in ite eximiag formWhith, in foot, be onge to mome widde ochetne intormedieto edep
 the conatruetion of our Stelliar Hearensributed throughout all apeoe, our hoanven: aro but a sienpla eluster, a group-a lim
ited, deanite and peouliarly hapeng group
The noareat approech to the shappo of thi proup may bo found in the diagram bo large diagram, reproventing an imimenes
apherieal eluster of stars, with the sun in
the centre-the stars ae tluyy receide froun the sun growing more
In their distribution.]
In coanection with
 ewcopn has ahown us a vart variety of
others, whoes forms are, Ulinewies, wo very
caprieious and irregular. that when we
 etespo of progrese. and that thoy
erainily, as far as 1 have exposed it there
is nothing in favor of it exeept a probabil.
ity-we shall And, by an enamination of ur own Stillar Heavens, ppoof on overy
oude and in every appreciable form, thet pros. That portion of the subjeet whieh
 while making
of the Pleiades.
the heavens, ing havenens, his attention was mueh at
itrects peculiar eluanter, and after bestowing upon it a moat searching exam.
ination, he atid, " It is imposebible that thi gmup of oo many stars, ocoupying so smal
appee, oan be acoidentpl. It munt indi
onto syotem." Ho ev vn went so far as to hrow out what, at that time, was a most
bold conjecture, vis: - that these orba would minifest their connection in a sye motion. Unfortunatoly, howover, in hin
Uing time antronomical instrumente had not
been brought to such a atate of perfection as would enable this conjecture to be ver.
ified. His ideas did not lead to any def. nite rosult, nor could they, as science then
oxiteded. Bitat thyy were subequenty re.
 had precoeded him in thio depertment. His attention was directed to cerrain peculia
bodies found in the hoavena, which we akked oye appear juet like aingle atar ut when the toleceopice power fo appliod othem, they are found to be two stan hem. Provious to Hersechel's time it wa nown that thece stare oxiested in the hoeto ane, but they had never been subjeote onantitution and the lawe whioh guide hoir motionad It was not supposed tha: sey were so near each other ap they have
sinoe been ascoertained to be. I will illus. trate thia point in the following manner :-
Suppose of look at theve two lightes fron in the direotion that they shall inuarly bo now that this large speoge. anoe, that thoy liy in the mame immerediate ueighborhood. Hore you will obeorve wae
the difieuly attending the colution provious in Hervolisl's time, of the problem hat they were in. immediate diocosimity and not apperent meroly, as had formerly ${ }^{6}$ beon eupposed.
Horbohel was attraoted to thie peouliar
olase of bodios, with refibronoe to the pro.
blem oalied the problam of the parallas, hlem oalied the moblam of the paralhas




