

Leet. 11th

Planets fixed Stars

- Ptolemaei System - figure

- Copernican System -

- Kepler's discoveries -

Planets sweep equal areas

in equal times - Comets

- Descartes vortexes - Planets

would recede from the center

Newtonian System Gravitation

Projectile force - Why does

no planet approach ^{to} our

recede from the sun without

falling into him or leaving

him - figure - sun attracts

increases as the square of the

distance decreases, but the pro-

jectile force increases in the

same proportion there is therefore

equilibrium -

Expts on the Whirling table
Double velo. = 4 times could
force —
Self Physics — Jupiter drawn
out of his orbit —

Description of the Solar Syst.
Sun, liquid fire — nucleus —
Mercury perfectly white —
+ Venus no spots Mr. Herschel
cannot determine either her rotation
or inclination of her axis —

Phases —
+ Mars — motion of the spots
irregular either Mars moves
irregularly on the Earth on its
axis —

+ Jupiter — axis perpendicular to moons
moved by a piece of clock work
Figure of the conjunctions of the
moons on the fourth day three
of them come into conjunction —
on the eight all the four — conjunction.

Tides in St George's Channel -
Flow more easily from the
south - Severn - Mexico It
is probable that the west India
Island have once formed a con-
tinent but by the constant motion
of the trade winds and moon to
the westward the earth has been
washed away and perhaps the
Gulf of Mexico has been a
flat level country - But what
becomes of all the water constantly
poured into the G. of Mex? it
whirls about and passes off
~~to~~ through the G. of Florida
occasioning a strong current
along the whole coast of
North Am; as far as New-
foundland - At
North Am; the Tide rises higher
than ever in the Severn -