The Nebular Theory.

BY HERMAN WETTSTEIN.

more "at sea" than that of the neb- photographs show. ularh ypothesis. Three distinct attiaccepts it, and one which endorses it with a view to misconstructing its inevitable deductions. An ilstability of our solar system." A zealous church men have pretendnever made. Laplace was the one notice-H. W.) it has been imwho gave distinct form to the neb- mensely strengthened, and the then, should Liberals "fall in line" ular hypothesis of the origin of Lick photographs alone would have our solar system and to say that given birth to such an hypothesis able to produce valid arguments stability flies directly in the face had not anticipated it. of the theory of which he was the immortal author. Nothing can be a nebula we shall return—is a pro- is, of course, now entirely out of more contrary to this hypothesis position the first half of which at the question. than to claim permanent stability least can be regarded as establishfor our or any other solar system. ed. There are photographs, for gruous statement of Prof. Jacoby, Then why make such a preposter- instance, which exhibit as clearly which it is impossible to reconcile education and propaganda. In ous statement as that the one who as anything possibly could do, the with the nebular hypotnesis, which lengthy discussions over disputed proposed the origin of worlds out emergence of suns, planets and sat- he to all appearances accepts. of a nebulous haze and their event- ellites out of the nebulous clouds. ual return to it, should demonstrate their "permanent stability." Can a more absurd statement be conceived of? Anything more contradictory? Evidently Prof. Jacoby nebula, of course, but many nebula don't know his own mind concerning these matters, else he would never have uttered anything so flagrantly inconsistent.

nent stability of our solar system" coincide, for instance, with the following observations made by the the full grown stalk with its leaves astronomers of the Lick Observatory, of which a succinct account has as successive phases of one continurecently been given by Prof. Serviss in the New York Journal? tion. (See also The Truthseeker of Aug. 18th.)

each so stupendous in circuit that this solar system of ours was as to the most ordinary mind.

whose gigantic whirling motion manity, awaiting its time to sprout coby-using the columns of the upon which scientific men are shapes and appearances that these ian joss comes in.)

the Academy of France and gave Instead of being exploded by the are forced to postulate? his demonstration of the permanent progress of discovery, as some overhe demonstrated its permanent if the genius of Kant and Laplace against it, which in view of the un-

The process is there before your eyes. You can not dispute it. The various stages of world-creation are represented, not all in one in different stages of development and condensation. To doubt that the results of the process are before us, would be as ir-How do his views of the "perma- rational as to doubt that the grain of seed in the ground, and the sprout pushing above the soil, and and berries, are all bound together ous process of growth and evolu-

"Take the wonderful photo-

That "overzealous churchmen" more unwarranted utterance was ed, (Prof. Wakeman, please take hypothesis, shows from what quarter the opposition emanated. Why, hazards-by fair means or foul." with the opposition, if they are unimpeachable confirmation it has "Out of a nebula we came; into received by the Lick photographs,

Note, also, the following incon-

of its former self, and end perhaps in chaos and extinction?"

most positively by the Lick photographs in the affirmative, i. e., that our solar system and every other not only because it is interesting, one that makes up the constellations, is bound "to end in chaos the scientific point of view it is and extinction," or, as Prof. Serviss puts it, "Out of a nebula we came; tion will show, thus: into a nebula we shall return."

There is "chaos and extinction" graph which Prof. Keeler has re- for you. But note how Prof. Ja-Speaking of the Crossley reflect-cently discussed in the scientific coby misconstrues the inevitable 15th, from the Popular Science ing telescope, devoted to the pho- journals, representing the strange conclusions to be drawn from the tographing of the celestial orbs, he Trifid nebula in the constellations nebular hypothesis. Says he: "Lasays: "Especially among those Sagittarius . . . This curious place was able to answer confimysterious and wonderful clouds of haze, sprinkled with stars and dently, No!" I say, Laplace never show, that the durability of the faintly glowing gases called 'nebu- channeled with endless branches asserted anything of the kind! lae' has this telescope proved its like the roots of a gigantic tree, Never was there a more positive strated by La Place in such a way exceptional power. Vast spirals, contains the whole potency of a YES expressed in any proposition immense gulfs of blackness sur- future system of suns and worlds. or theory whatsoever than that inrounded by luminous walls, intri- No miracle is needed; no interces- volved in Laplace's, which argues ance was fully justified by all subcate patterns of nebulous traceries sion of creative power. That nebu- the transciency of all bodies of sequent discoveries and observaas delicate in structure as the finest la holds the atoms of coming plan- matter. And never has an attempt tions. The Torch, because the lacework, beaded with stars, inter- ets and moons and the essences come to my notice from a scientific article was short and good, relinked rings of light, gleaming like from which their inhabitants are to quarter that so transparently seeks printed it. the phosphorescence of the sea, but be compounded. Once on a time to pervert what must be apparent

and whose gradual compaction in- and spring up and grow into the Popular Science Monthly for its into new suns under the presure of beauty of 'the image of God.' (As strument-to deduce "the permagravitation are all but visable- for us being images of God, I don't nent stability of the solar system There is probably no question such are some of the marvelous see where the credit to the Christ- from the nebular hypothesis. Realizing that this theory would give Verification for the nebular hy- the theistical concept of the world's "In one respect particularly the pothesis having thus been obtained "creation"[?] the deathblow if it tudes seem to be held in regard to latest Lick's photographs are in- by unquestionable scientific de- were verified beyond all reasonable it: one that rejects it, another that tensely interesting. Frequently monstration, how can a learned doubt, as it now has been by the the question is asked by those gentleman assert in the face of this Lick photographs, the only rewho, although interested in astro- verification the "permanent stabil- course left to Theists is to question nomical research, have not fol- ity of our solar system?" With its inevitable implications. Such lustration of the latter class was lowed it closely: 'Has the famous the facts before him, as revealed by attempts would be but in accordrecently presented in an article by nebular hypothesis of the origin of the Lick photographs, showing, ance with the Jesuitical precept, Prof. Harrold Jacoby, in the Popu- the world been exploded by recent that: "out of a nebula we came; in that "the end justifies the means." lar Science Monthly, who aired his discoveries?' How the impression to a nebula we shall return,' howcan And that all shades of dissenters views under the heading: "The that it had been exploded became he maintain the position assumed from the Roman Catholic Church, Sun's Destination," (reprinted in so widespread it would be hard to by him? What can the evidence i.e., of Protestantism, have adopted the Torch of Aug. 16th.) says he at say, but no one studying the pho- presented prove more absolutely this maxim, our daily experience the outset: "Three generations of tographs in question could long than the transiency of all existing only too forcibly proves. What men have come and gone since the entertain any doubt as to the things, barring only their constitu- Loyola declared in the above in-Marquis de Laplace stood before standing of the nebular hypothesis. ents, the permanency of which we junction was generalized by all the churches under the form that "the integrity of Ecclesiasticism, i. e., of attempted to "explode" the nebular the theistical concept of the universe, must be preserved at all

> The Nebular Hypothesis vs. The Nebular Theory. Please Don't Foreclose the Universe.

> > BY T. B. WAKEMAN.

hypotheses and speculations, the "And so men asked," he says, size and purpose of this paper for-"has this magnificent solar system | bid us to indulge as we often wish been built upon a scale so grand, to do. We stand, for instance, in been put in operation subject to a Astronomy and Physics on known law sublime in its very simplicity facts and laws, like the helioonly to change and change until at centric solar system, the law of length it shall lose every semblance equivalent correlation, and their plain consequences. There are other papers more expressly devoted to This question has been answered explorations and disputations.

We print Mr. Wettstein's article, "The Nebular Theory," therefore, but because when looked at from highly educative, as a little atten-

. 1. Is he right about Prof. Harrold Jacoby's article, which was Monthly, which is quite a reliable scientific publication?

as to receive general acceptance by

Friend Wettstein says No! For, the whole solar system and man'y formless and chaotic as that huge P.S. I can see nothing but the the great advocate, if not the orisolar systems together might be glowing mass of gasses in Sagitta- "cloven foot" [or "hoof"] of Ortho- ginator, of the Nebular Hypothesis, embraced by it; orbs of pale fire rius, but it held the seed of hu-doxy in the attempt of Prof. Ja- to the effect that the sun and solar