mery of relics and the hypocrisy of with magical conjurations!" ecclesiastics, who compared Christ tions.

Johann Lippershey in Middleburg, had, by the combination of several able trial of Galileo. lenses, produced an instrument

the solar system.

Galileo's telescope were branded as dulgent. mere hallucinations and delusions. to be sought either in the world or theologians."

shows it in a milder light. In bility of the orthodox interpreta- which I brought forward in con-Galileo's case, on the contrary, it tion of the Bible as the result of roboration of that view, merely as concerned a scholar, who without mere star-gazing. He was joined a poem or rather as a dream; as making an attack on the teaching by Father Lorini, his friend and a such your highness may receive it. of the Church, without deviating member of the same order, who But even poets at times place a in any way from the objects of his added a denunciation of the er- value on one or another of their merely wished to lay before the physicist, addressing it to the Holy value on this, my dream." world the results of his investiga- Office in Rome. It was well re-

Then did the master pour forth his the commission convened by the rock of the Church at Rome, execrate and express my abhortroubles to Kepler, his friend to the Holy Office unanimously arrived at When the discovery of America rence of the above-mentioned errors north of the Alps: "You are the the following decision: That the had demonstrated the untenable- and heresies [namely, that the sun, first and almost the only one who, declaration that the sun forms the ness of the old opposition to math- and not the earth, is the motionless without having seen for himself, center of the universe, and is with- ematics and the teaching of the center of the universe, and swear gives full credence to my state out local movement in space, is antipodes, there was some measure that in future I will never by word ments. What will you say of the "foolish and absurd from a philo- of uncertainty felt as to what was or writing assert or maintain anyfirst teachers of Padua, who, when sophical standpoint," and is "her- to be done about the new teachings thing whatever on account of I made them the offer, would etical from a religious standpoint, and discoveries; but now all at which I might incur similar susneither look at the planets or the inasmuch as it contradicts the once was seen the abyss which was picion." moon through the telescope, nor tenets of Holy Scripture in many opening in place of the old, sure even examine the latter? Men of places, both according to the plain geocentric foundation for school to himself, "It moves just the this class regard philosophy as a meaning of the words and accord- and church. book like the Aeneid or the Odys- ing to the universal interpretation The Pope, from a warm admirer this belief to the end of his life sey, and believe that truth is not of the holy fathers and learned of Galileo, became a secret enemy, may, as has already been men-

ulations of the Church with bitter teacher in the university there en- patron, the Archduke Leopold of the 15th of September, 1632. He

Shortly after (1608) Galileo inary and secret proceedings were fathers, and roused them to refriend Kepler. The hoped-for re- those to whom it belongs; but do under the direction of the Jesuits, like the moon and earth, received them, but it is not in the power of distinctly all that would result The formula of abjuration, which their light from the sun; and the any human being to cause them to from the belief that the earth could probably followed immediately after satellites of Jupiter were brought be true or false or other than they no longer, according to the views of the announcement of the sentence, to view as a miniature model of are de facto from their nature." Aristotle, be looked upon as the contains, after the acknowledgment These words, as bold as they were center of the universe, around of the justice of the sentence passed It was not long, however, before true, were certainly not calculated which everything should turn and upon him, the solemn promise the discoveries effected through to make his opponents more in- all other stars revolve, even as the wrung from him in face of torture: thoughts and destiny of mankind ". . . with an upright heart On the 24th of February, 1616, should circle about the immovable and unfeigned sincerity I abjure,

and gave the Jesuits entire liberty tioned, be safely assumed. in nature, but only in a comparison He had at that time written a of action in the matter. Galileo's He was released two days later of texts. How you would have work on the phenomenon of the trial before the Inquisition was from prison and assigned as resi-

mockery, and had spoken alto- deavored, in the presence of the Austria, with a note which con- was not for a moment in doubt gether too frankly of her dogmas. grand duke, to draw the new heav- tained the following words: "Be- that he was now delivered over to Against the author of Candle- enly bodies from the sky with cause I am now aware that it is fit- the mercy of the Jesuits, and that makers, who scoffed at the mum- logical demonstrations, as though ting to believe and to obey the de- in spite of all his intercession he cisions of the superiors; they being must expect the worst. He wrote: Soon after, a Dominican monk, directed by a higher intelligence to "I hear from a reliable source that to a Centaur, who had attacked Caccini of Florence, in a sermon which my mind is too base to soar the Jesuit fathers have inspired with all his strength the foundation on a text which seemed made for alone, I regard this work, which I those in authority with the conpillar of the Church, the holy the occasion, "Ye men of Galilee, send to you, so far as it rests on viction that this book of bline is Aristotle, she might have been in a why stand ye gazing up into the assumption of the two-fold more abominable and more harmnecessarily defensive attitude that heaven?" thundered against the movement of the earth, even though ful to the Church than the writings does not excuse her proceeding, but man who dared attack the infalli- it contains one of the arguments of Luther and Calvin. . . ." Concern for his future, and the journey, in those days so tiresome, had so weakened him that the ambassador feared for his life. For we must consider that the prospect of torture and the stake never once physical and astronomical studies, roneous teachings of the Florentine fancies, so likewise do I place some left the sick old man in the prison of the Inquisition. The burning of Naturally such utterances al- Giordano Bruno (1600) and Lucilio ceived, and immediately prelim- ways reached the ears of the pious Vanini [1619] were still fresh in memory, and Galileo had no desire learned that a Dutch optician, instituted against the offender. newed fury. At this time Kepler, to be a hero of the faith. He had With that began the ever memor- in Prague, although in the service no longing for the martyr's crown, of his apostolic majesty, also ac- nor was he a philosopher, whom it Galileo, who at the outset knew knowledged himself as favoring the might disgrace to give up his conwith which the heavenly bodies nothing of these proceedings secretly Copernican theory, and in the same victions; he was simply a naturalcould be seen more distinctly. This begun against him, stirred up his year (1618) in which Galileo's work ist, whose observations were not atled him to make for himself a tele- adversaries still more by continu- began to stir up discussions, he tacked, but who was only forbidden scope (1609) in order to extend the ing to rely on his just claims in an made the immortal discovery of to give them a precise interpretafield of vision, and to gain a deeper open letter to the Dowager Grand the third law governing the move- tion. He remained twenty-three insight into the construction of the Duchess. "First take care," he ments of the planets. In the same days imprisoned in the palace of universe, as well as into the pe- writes, "to refute the arguments of year, also, occurred the first rising the Inquisition, and was brought culiarities of the heavenly bodies, Copernicus and his followers, and of the Protestants in Prague, which before his judges four times. On than had thus far been possible to leave the concern of condemning ushered in the Thirty Years' War. the 16th of June, 1633, a decree Copernicus, Tycho Brahe and his them as heretical or erroneous to Therefore the Church, at that time was issued by the Holy Office, which arranged the criminal prosult was attained; he immediately not hope from the discreet as well believed that it ought to make a ceedings and threatened Galileo discovered the satellites of Jupiter, as intelligent fathers of the Church, ruthless attempt to win back the with the rack in case he would not described in his Sidereus Nuncius and from their absolute wisdom territory lost through the Reforma- confess the whole truth. On the (1610), the moon-like phases of which cannot err, that rash de- tion, even though the peace and 21st of June the last trial examin-Venus and Mercury predicted by cision to which you, urged on by prosperity of the whole of Central ation took place, of which it is said Copernicus, and finally the sun- personal interests and passions, Europe should be destroyed there- in the extant verdict pronounced spots (October, 1610), which proved would allow yourself to be hurried. by. There was felt only too well on the following day: "As it seemed the revolution of the sun on its For it is indeed beyond doubt that the close relationship between the to us, however, that the whole axis, already taught by Copernicus. in regard to these or other similar new astronomical discoveries and truth was not told by you in regard These discoveries were so many assertions which are not directly the opposition of the Protestant to your purpose, we considered it confirmations of the Copernican de fide, His Holiness the Pope has spirit to the authority of the necessary to have recourse to the system; the planets were clearly always the absolute power to pro- Church. It is probable that now, examen rigorosum against you, shown to be dark bodies, which, nounce them good or to condemn for the first time, was recognized where you answered as a Catholic."

That he at the same time added same," and remained faithful to

laughed, when at Pisa the first tide and sent it (1618) to his thereupon begun in great haste on dence, under constant ecclesiastical