

of the progress of the Studies, Labours, and attempts of the Curious and learned in things of this kind, as of their compleat Discoveries and performances: To the end, that such Productions being clearly and truly communicated, desires after solid and usefull knowledge may be further entertained, ingenious Endeavours and Undertakings cherished, and those, addicted to and conversant in such matters, may be invited and encouraged to search, try, and find out new things, impart their knowledge to one another, and contribute what they can to the Grand design of improving Natural knowledge, and perfecting all *Philosophical Arts*, and *Sciences*. All for the Glory of God, the Honour and Advantage of these Kingdoms, and the Universal Good of Mankind.

An Account of the improvement of Optick Glasses.

There came lately from *Paris* a Relation, concerning the Improvement of *Optick Glasses*, not long since attempted at *Rome* by Signor *Giuseppe Campani*, and by him discoursed of, in a Book, Entituled, *Ragguaglio di nuove Osservazioni*, lately printed in the said City, but not yet transmitted into these parts; wherein these following particulars, according to the Intelligence, which was sent hither, are contained.

The *First* regardeth the excellency of the long *Telescopes*, made by the said *Campani*, who pretends to have found a way to work great *Optick Glasses* with a Turne-tool, without any Mould: And whereas hitherto it hath been found by Experience, that *small Glasses* are in proportion better to see with, upon the Earth, than the *great ones*; that Author affirms, that his are equally good for the Earth, and for making Observations in the Heavens. Besides, he useth three Eye-Glasses for his great *Telescopes*, without finding any *Iris*, or such *Rain-bow colours*, as do usually appear in ordinary Glasses, and prove an impediment to Observations.

The *Second*, concerns the *Circle of Saturn*, in which he hath observed nothing, but what confirms Monsieur *Christian Huygens de Zulichem* his Systeme of that Planet, published by that worthy Gentleman in the year, 1659.

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The *Third*, respects *Jupiter*, wherein *Campani* affirms he hath observed by the goodneſs of his Glaſſes, certain *protuberancies* and *inequalities*, much greater than thoſe that have been ſeen therein hitherto. He addeth, that he is now obſerving, whether thoſe fallies in the ſaid *Planet* do not change their ſituation, which if they ſhould be found to do, he judgeth, that *Jupiter* might then be ſaid to turn upon his *Axe*; which, in his opinion, would ſerve much to confirm the opinion of *Copernicus*. Beſides this, he affirms, he hath remarked in the *Belts* of *Jupiter*, the ſhadows of his *ſatellites*, and followed them, and at length ſeen them emerge out of his *Disk*.

A Spot in one of the Belts of Jupiter.

The Ingenious Mr. *Hook* did, ſome moneths ſince, intimate to a friend of his, that he had, with an excellent twelve foot Te-
leſcope, obſerved, ſome days before, he than ſpoke of it, (*ſidel.* on the ninth of *May*, 1664. about 9 of the clock at night) a ſmall Spot in the biggeſt of the 3 obſcurer *Belts* of *Jupiter*, and that, obſerving it from time to time, he found, that within 2 hours after, the ſaid Spot had moved from Eaſt to Weſt, about half the length of the Diameter of *Jupiter*.

The Motion of the late Comet prædicted.

There was lately ſent to one of the *Secretaries* of the *Royal Society* a Packet, containing ſome Copies of a Printed Paper, Entituled, The *Ephemerides* of the *Comet*, made by the ſame Perſon, that ſent it, called *Monſieur Auzeut*, a *French* Gentleman of no ordinary Merit and Learning, who deſired, that a couple of them might be recommended to the ſaid *Society*, and one to their *Preſident*, and another to his Highneſs Prince *Rupert*, and the reſt to ſome other Perſons, nominated by him in a Letter that accompanied this preſent, and known abroad for their ſingular abilities and knowledge in Philoſophical Matters. The end of the Communication of this Paper was, That, the motion of the *Comet*, that hath lately appeared, having been prædicted by the ſaid *Monſieur Au-*