III. An Explanation of the Rule for the finding of Easter. In a Letter from the Reverend Mr J. Jackman to Dr Hans Sloane, S. R. S.

Aving met with leveral Explanations of the Rule for Easter in our Common Prayer-Book, and two publish'd among the Transactions of the Royal Society, but none right and sufficient; and having undoubtedly collected the true sense of the same, by comparing the said Rule and the Table for Easter in the Common Prayer-Book together, I have been perswaded to communicate it to you, in order to be inserted (if you think sit) in the next Philosophical Transactions, as here follows.

The Rule is thus worded, viz.

Easter-day is always the first Sunday after the first full Moon, which bappens next after the one and twentieth day of March. And if the full Moon bappens upon a Sunday, Easter-day is the Sunday after.

For the right understanding of which it is sufficient to observe,

- 1. That the full Moon meant is the 14th day of the Moon, according to the Kalendar in the Common-Prayer-Book (which may be call'd the Church-Kalendar) counting that day of the Month for the first of the Moon, which hath the Golden Number of the Year collateral to it in the first column of the said Kalendar. And
- 2. That these words [next after Mar. 21.] are meant inclusively, as if it had been said [next after the commencement of Mar. 21.] so that if the full Moon happens on Mar. 21. the same must be the Paschal full Moon.

Now, in order to prove these Observations are both right, and sufficient for the understanding of the Rule, I shall only suppose (what all Men of Sense and Candour will, and all Maintainers of Rule must, allow) That if they are necessary and sufficient to reconcile the Rule with the authentick Table to find Easter (from which Practice never varies) then are they right and sufficient. Which being premised,

I prove that the first Observation is necessary to that Because, if the Pascal full Moon be any day before or after the 14th of the Moon by the Church-Kalendar, then the Rule and the Table will clash. For 1. If it be any day before, then as often as the faid 14th of the Paschal Moon is a Sunday, that very day, at latest, must be Easter day by the Rule, as being a Sunday after the full Moon therein meant: Whereas by the Table and Practice it is not till the Sunday after that. Thus Sunday, Apr. 1. this year (1705.) was the 14th day of the Moon by the Church Kalendar, and therefore must have been Easter-day (or after) by the Rule, if the full Moon therein meant had been any day before the said 14th of the Moon, whereas Easter-day was April 8. by the Table, and accordingly observ'd. And this obliges us not to understand the true full Moon by the full Moon in the Rule, because that happens about four days before the 14th of the Moon by the Church-Kalendar. the full Moon meant in the Rule be any day after the 14th of the Paschal Moon by the Church-Kalendar, then as often as the faid 14th happens to be Saturday, and consequently the full Moon meant in the Rule to be the Sunday following at foonest (that being the very next day) that Sunday cannot be Haster-day by the Rule; whereas by the Table and Practice it is. Thus Saturday, April 4. 1702. was the 14th day of the Moon by the Church-Kalendar; and therefore if the full Moon meant in the Rule were any day after that, it must have been on Sunday April 5. at somest, consequently pril 12 at soonest must have been Easter-day by

by the Rule; whereas April 5. was Easter-day by the Table and Practick: And this evinces the mistake of those, who make the 15th day of the Moon to be the Full in the sense of the Rule; as Dr Wallis, Philos. Trans. 240. Mr Wright, in his Posseript to his Short View of Mr Whiston's Chronology, &c. and the Introductio ad Chronologiam (Reprinted at Ox

ford, A.D. 1704.) p 37.

2. I prove the second Observation necessary to the same end; because a sull Moon in the sense of the Rule, (viz. the 14th day of a Moon by the Church-Kalendar) often happens on March 21. and in that case the Sunday sollowing is always Easter day by the Table and Practice; whereas it must be a month after by the Rule, unless we understand these words, [next after March 21.] as I explain them. And this will be the case next year (1706.) nor doth the proof of this point need the supposition of the foregoing, (tho that may now be fairly supposed, as being already provid:) for, count you the full Moon how you will, March 22. can never be Easter-day by the Rule, unless March 21. may be the Paschal sull Moon by the same; and yet March 22. is Easter-day by the Table and Practice, as often as the Golden Number is 16, and the Dominical Letter D.

I am aware that this ad Observation may seem to many forc'd and unnatural; and that, perhaps, might induce some to count the 15th day of the Moon for the Full in the Rule, and Mr Thornton, Philos. Trans. 297, to substitute March 20. in Leap-years for March 21. neither of which Hypothefes, however, do any service, all things consider'd. The former indeed would vacate my second Observation, (March 21. never being the 15th day of the Moon by the Church-Kalendar) but then it would make the Rule notoriously irreconcilable with the Table and Practice, as hath been already And, as to Mr Thornion's Hypothesis, 1. The only colour for it (viz. That at the time of the Council of Nice the Vernal Equinox was March 20. in Leap-years, and not March 21. as in Common years) is, for any thing that I know, more likely to be false than true, and doth by no Bobbbbbbbbb means

means follow from the Intercalation. 2. If this Colour were true, it were too great a nicety to have been probably regarded by the Church. 3. This Hypothesis puts more force upon the words of the Rule than mine. And, lailly, If it were admitted it would folve the difficulty only in Leapyears, and my fecond Observation would still remain necellary, because the case happens as well in Common as in Leap-years; whereof we have an Example in the next year (1706.) Nor will my second Observation be much boggled at by those that know and consider the inclusive way of reckoning used by the Romans, and from them deriv'd to all the Latin Churches, and particularly that of England: tor 'tis as proper to fay [next after March 21.] with the meaning I contend for, as to say, Tertio (ante) Calendas. Nonas vel Idus in the sense of the Roman Kalendar, to fay (as our Church doth a little after this Rule for Eafter) that Ascension-day is forty days after Easter, intending Easterday ittelf to be one of those forty. And itis observable in this very Rule, that, after it had been said, that Easter day is always the first Sunday after the full Moon, &c. 'tis added. that if the full Moon happens on a Sunday, Easter-day is the Sunday after; which had been a gross Tautology, if by the first Sunday after the full Moon might not be understood the day of the full Moon itself, when happening to be Sunday. And if the Sunday of the full Moon may be signified by the first Sunday after the full Moon, then the full Moon of March 21. may be fignified by the full Moon next after March 21. 3. I prove that my two Observations are sufficient to reconcile the Rule and the Table; because I my self have drawn up a Table to find Easter for ever by the Rule understood according to those Observations, and in the plain and obvious fence in all other respects, and, upon comparing, have found it to agree in every particular with the Table for the fame purpose in the Common Prayer Book; and any body else may make the same tryal: which method, if others had taken to examine their Explications of the Rule by they must have discovered their mistakes.

Stonel eigh-house, Oct. 13. 1705.