

SOMETHING NEW .- Paul Konewka.

Eclipses, Etc.

In the year 1881 there will be four Fclipses, two of the Sun and two of the Moon, and a Transit of the planet Mercury of the disc of the

I. A Partial Eclipse of the Sun, May 27. Occurring so near sunset, it will be invisible, or nearly so, in most of the United States.

II. A Total Eclipse of the Moon on the even-

ing of June 11, and morning of June 12, visible throughout the United States.

The phases for Washington, D. C., are the following:

										н,	M				
Eclipse begins, June Total Eclipse begins	1	2									٠,		0	3	morn.
Total Eclipse begins													1	5	morn.
middle of Echbse				_				_		-	 			40	morn
Total Echpse ends											 ٠.		2	26	morn.
Eclipse ends						٠.			٠.		 		3	28	morn.

For any place the times of the phases are easily found by the following rule:

If the place is west of Washington Meridian

subtract it difference of longitude expressed in time from the times of the Washington phases, the remainders will be the local time of the phases. But if the place is east of the Washington Meridian the difference of longitude from Washington expressed in time added to the times of the Washington phases will give their times for the place.

III. An Annular Eclipse of the Sun, November 21, invisible in the Northern Hemisphere.

IV. A Partial Eclipse of the Moon, December 5, invisible in the United States.

V. A Transit of Mercury over the Sun's disc, November 7. The Ingress of the planet on the Sun's disc is visible in the western portion of the United States; but its Egress takes place after sunset in all parts of the United States.

PLANETS BRIGHTEST.

Venus, March 27 and June 9. Mars, December 27. Jupiter, November 13. Saturn, November 1.

On account of the strong twilight in which Mercury is always immersed, near sunset or sunrise, this planet will be taken to be brightest, or best seen, when farthest from the Sun, at its greatest elongation; when, moreover, its apparent motion towards or from the Sun is very slow, so that it may be seen with ease several days before and after the time of greatest elongation.

THE FOUR SEASONS.

Winter begins December 21, 1880, at 5.10 A. M., and lasts 89 days, I hour and 2 minutes. Spring begins March 20, 1881, at 6.12 A. M., and lasts 92 days, 20 hours and 8 minutes.

Summer begins June 21, 1881, at 2.20 A. M., and lasts 93 days, 14 hours and 22 minutes.
Autumn begins September 22, 1881, at 4.42

P. M., and lasts 89 days, 18 hours and 10 minutes. Winter begins December 21, 1881, at 10.52 A. M. Tropical year, 365 days, 5 hours and 42 minutes.

MOVABLE FEASTS.

Septuagesima Sunday	February 13
Sexagesima SundayQuinquagesima Sunday	11 20
Ash Wednesday	March
Quadragesima Sunday	" 6
Mid-Lent Palm Sunday	April 27
Good Friday	** 15
Easter Sunday	** 17
Low Sunday	** 24
Ascension Day	" 26
Whit Sunday	June 5
Trinity Sunday	" 12
Corpus Christi	Nov. 27

CYCLES.	
Dominical Letter. Epact. Golden Number.	B
Golden Number	30
Solar Cycle. Roman Indiction Julian Period. Dionysian Period. 6	1
Roman Indiction	14
Iulian Period.	9
Dionysian Period	394
I amin's I am a Company	210