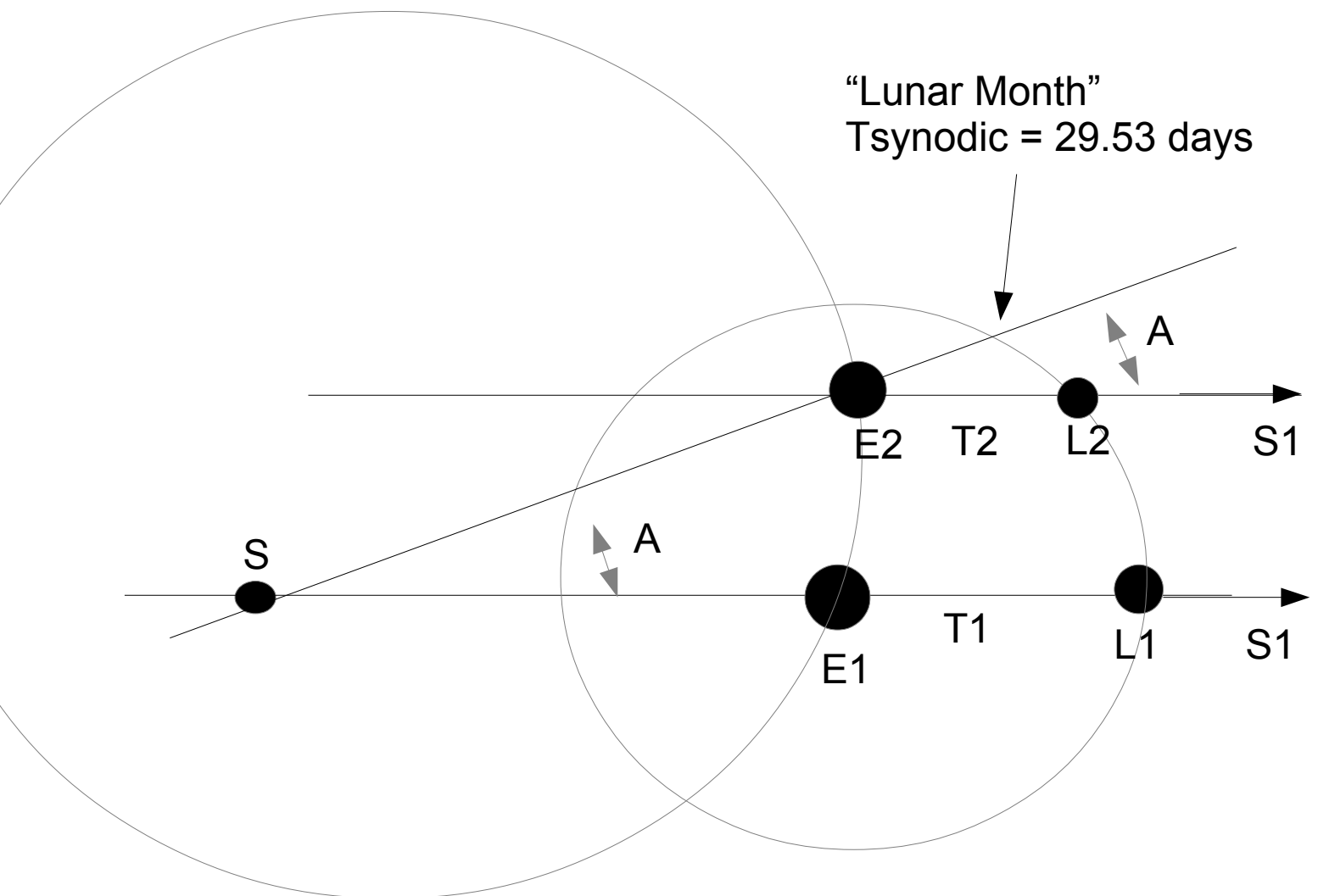


Getting the synodic period of the moon. This is the period of the Lunar month.



At time T1, Sun, Earth, moon, S1 line up, S- E-L-S1 line up,
 Assume S1 is much farther away than the sun to earth distance

Definition: Full moon means S-E-L are on a straight line

Sidereal period of L about E is 27.3 days

Lunar month is the time between full moons. After 27.3 days
 the moon has not yet reach the synodic configuration S-E-L

The angle A is covered in another 2.2 days of lunar motion.