

Shapiro Time Delay Using Newtonian Gravitation

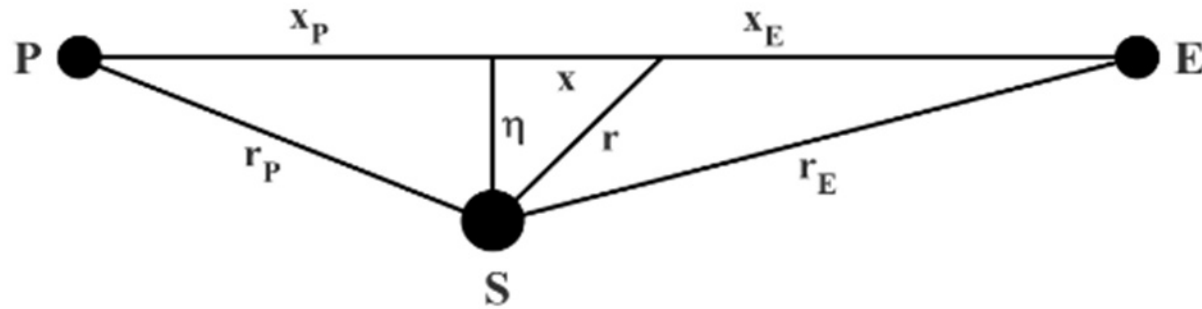


Fig.1. Planetary Arrangement for Time Delay Calculation

1971 Shapiro's formula

$$\Delta t_{sh} = \frac{2GM}{c^3} \ln \left(\frac{r_E + x_E}{r_P - x_P} \right)$$

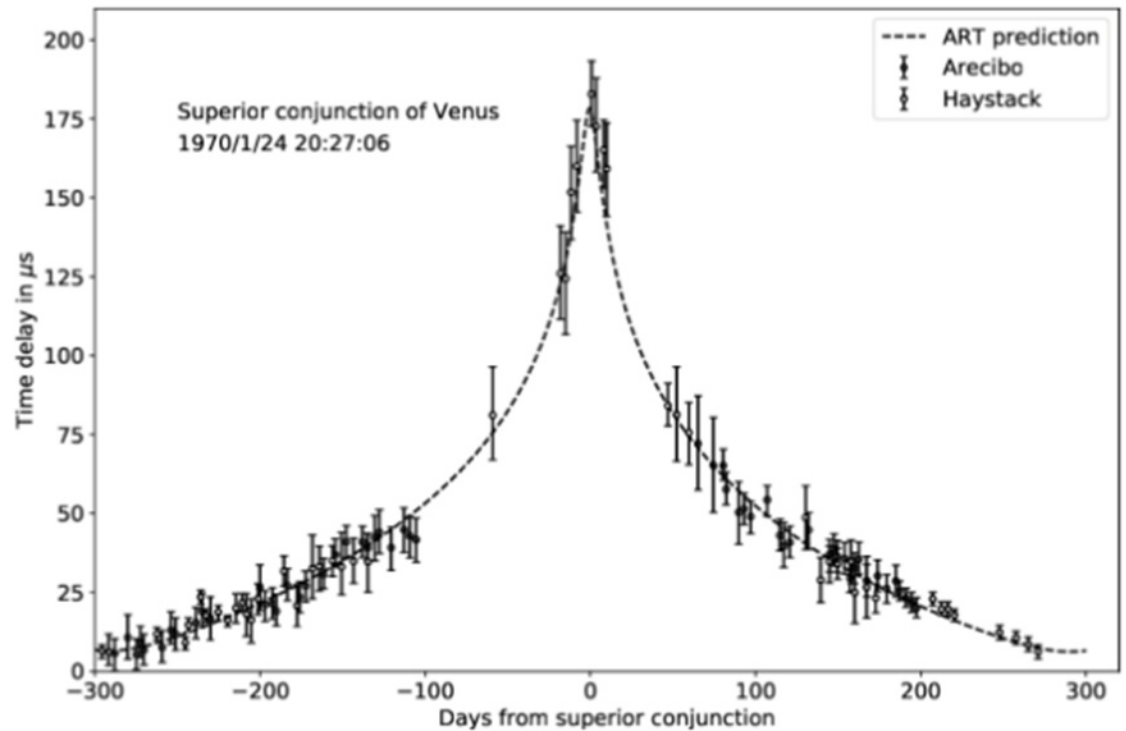


Fig.2. Plot of Time delay based on (18) and Radar echo data for Venus [3]