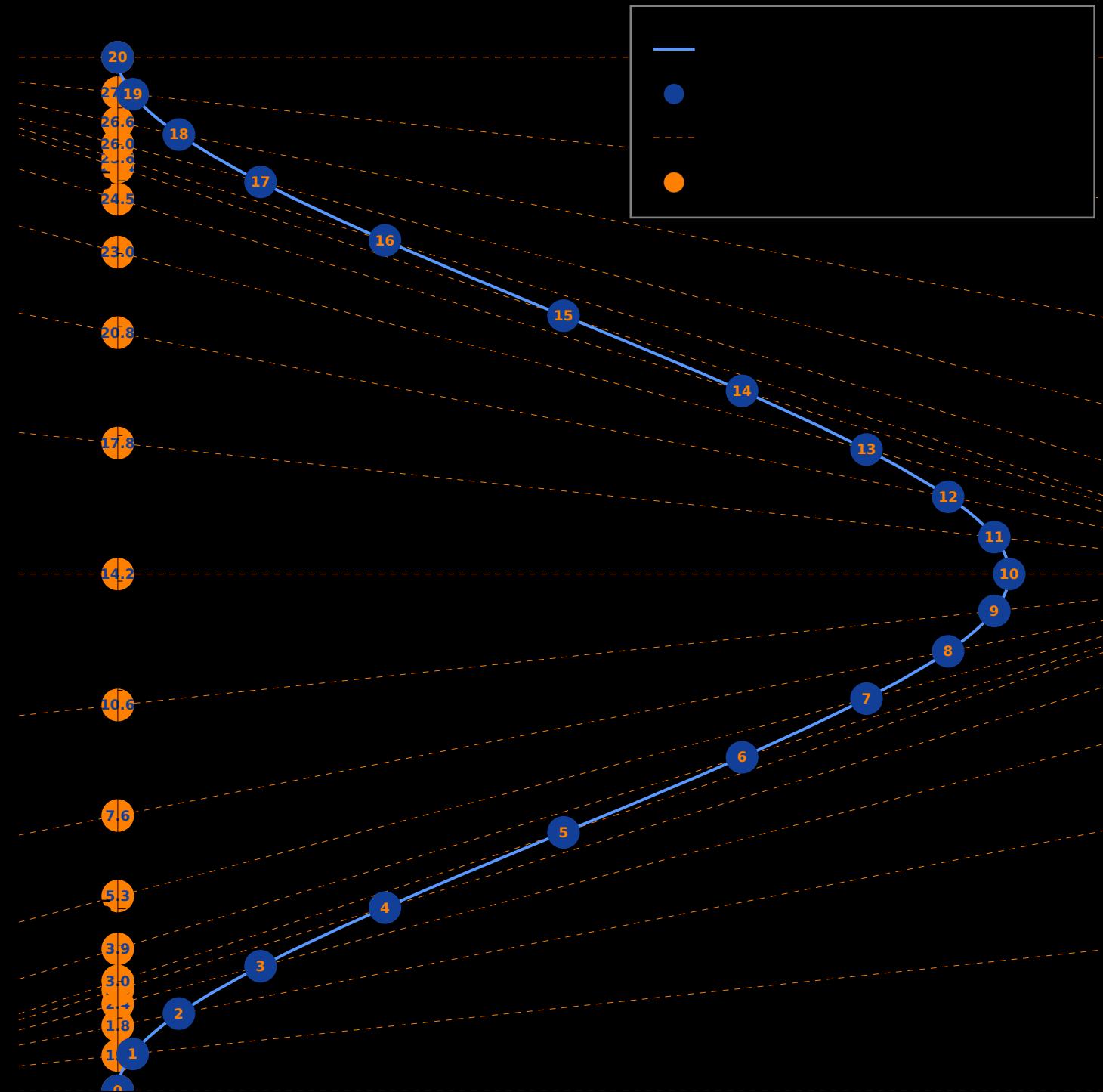


The Twin (Quasi)Paradox



Traveler's proper time τ (their clock) vs stay-at-home inertial time t .

Trajectory: accelerate out, flip, then return while decelerating/accelerating.

$$0 \leq \tau < 5 \text{ yr: } +0.3 \text{ ly/year}^2 (\approx 0.29 \text{ g})$$

$$5 \leq \tau < 15 \text{ yr: } -0.3 \text{ ly/year}^2 (\approx -0.29 \text{ g})$$

$$15 \leq \tau < 20 \text{ yr: } +0.3 \text{ ly/year}^2 (\approx 0.29 \text{ g})$$

After 20 years of the traveller's proper time, the twins are reunited and in the same reference frame.

The stay-at-home twin has aged by 28.39 years, and is 8.39 years older.

Caveat: this "inferred" stay-at-home age while away depends on the traveler's notion of simultaneity.

Relativity has no global now, only local here-and-now.