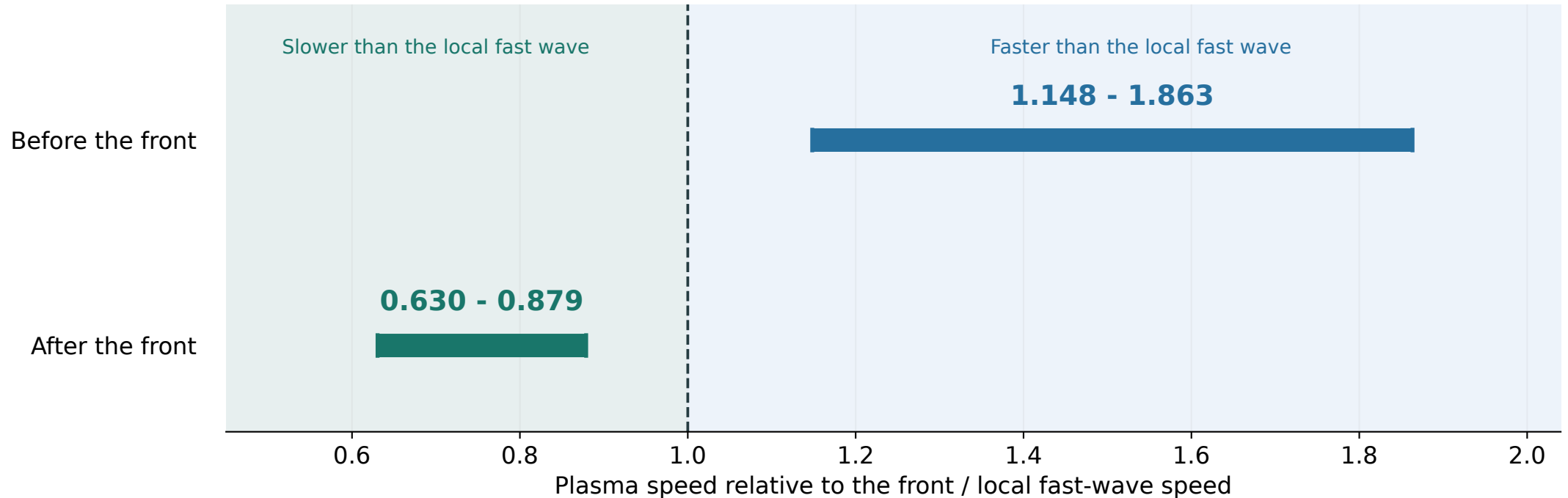


13 June 2010: a fast-shock model survives the input bounds

Published inputs: Ma et al. (2011) and Kozarev et al. (2011) | Conditional RMO calculation

Fixed assumptions: field along the front surface; upstream plasma at rest; common front



Result: the flow crosses from super-fast to sub-fast throughout the tested, conservation-linked domain.

Density and magnetic field increase together; mass, momentum, energy and entropy checks pass.

Bars: model envelopes, not observational confidence intervals. Front speed 496-667 km/s; sound speed 126-186 km/s.

The assumed geometry and plasma flow are not established by this calculation. The observed solar type remains open.