Warp Drive & CST Navigation — Reference Compendium

Curated sources tying together warp-drive theory, tunnel/navigation math, photons, classical mechanics, cosmology, calendars, and engineering context.

Foundational Relativity

• Einstein, A. (1905). On the Electrodynamics of Moving Bodies (Special Relativity).

• Einstein, A. (1915). The Field Equations of Gravitation (General Relativity).

• Misner, Thorne, Wheeler (1973). Gravitation. W.H. Freeman.

Warp Metrics & FTL Concepts

• Alcubierre, M. (1994). The warp drive: hyper-fast travel within general relativity.

• Natário, J. (2002). Warp drive with zero expansion.

• Pfenning, M., & Ford, L. (1997). The unphysical nature of 'warp drive'.

• Lentz, E. W. (2021). Breaking the warp barrier (Phys. Rev. D).

• Bobrick, A., & Martire, G. (2021). Introducing physical warp drives (Class. Quantum Grav.).

• White, H. (2011). Warp Field Mechanics 101 (NASA NTRS).

Cosmology & Distances

• Planck Collaboration (2018). Planck 2018 results. VI. Cosmological parameters.

• Hogg, D. (1999). Distance measures in cosmology (arXiv:astro-ph/9905116).

• Wright, E. L. (2006). Cosmology tutorial and calculator.

Navigation Math & Variational Principles

• Fermat's Principle; Snell's Law (least time).

• Bernoulli (1696). Brachistochrone problem → cycloid path.

• Euler–Lagrange equations; Calculus of Variations (Euler).

• Maupertuis' Principle of Least Action; Hamiltonian mechanics (Hamilton).

Photon Momentum & Shielding

• Photon momentum $p = E/c$; radiation pressure basics.

• Laser ablation and photon pressure for debris deflection (review articles).

Rocketry Context

• Tsiolkovsky (1903). Rocket equation.

• Parker Solar Probe mission — peak heliocentric speed ~192 km/s (NASA).

• New Horizons mission — launch speed ~16.26 km/s (NASA).

Calendars, Timekeeping & Antikythera

• Antikythera Mechanism — scholarly overviews and reconstructions.

• Maya calendar & Long Count; Metonic cycle; Egyptian decans; global calendar surveys.

Dictionaries & Encyclopedic Overviews

• Oxford Languages; Merriam■Webster (entries: photon, warp, metric, horizon).

• Wikipedia overview articles (as launch pads to primary sources).

Your Framework (CST & Circle■Space Routing)

• Casanova, G. (2025). CST timing & circle-space tunnel routing (web tools & calculators).

Schematic Illustrations (placeholders)

Figures: (1) Tunnel path shortening vs. comoving grid; (2) Event-horizon closing condition; (3) Photon pressure cone for Arrow Shield; (4) Rocket vs. tunnel time-to-target.

Note: This PDF focuses on references. Visual schematics are indicated here for future expansion.