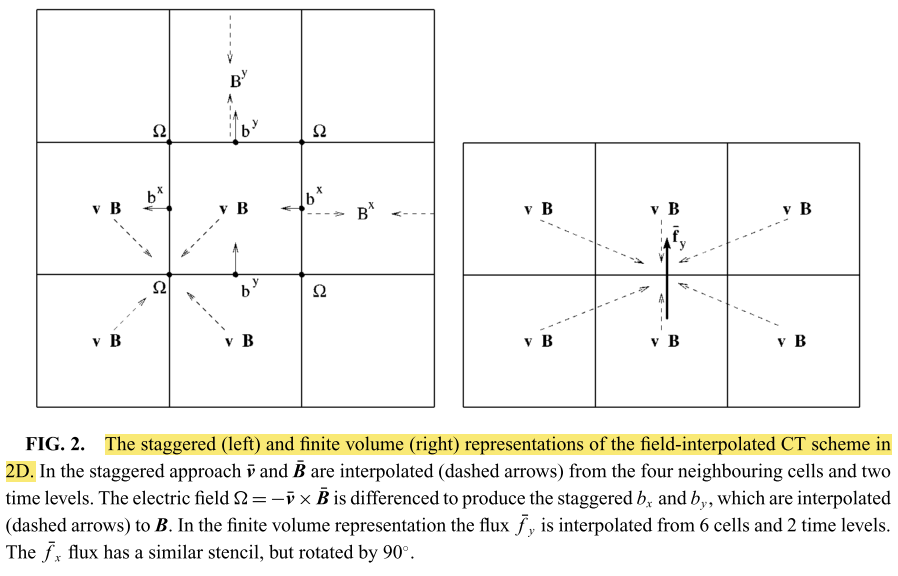
MOONS - Constrained Transport (CT) Discretization

One can equally regard a collocated (cell centered) as the primary variable and eliminate (face centered) from the CT schemes altogether, which simplifies the implementation (no need for staggered variables), the interpretation in the finite volume sense, and comparison with other schemes [1].

The magnetic field is updated through Faraday's Law:

Where the new numerical fluxes are defined as



1. "Tóth, G. The divergence Constraint in Shock-Capturing MHD Codes. *J. Comput. Phys.* **161,** 605–652 (2000)."