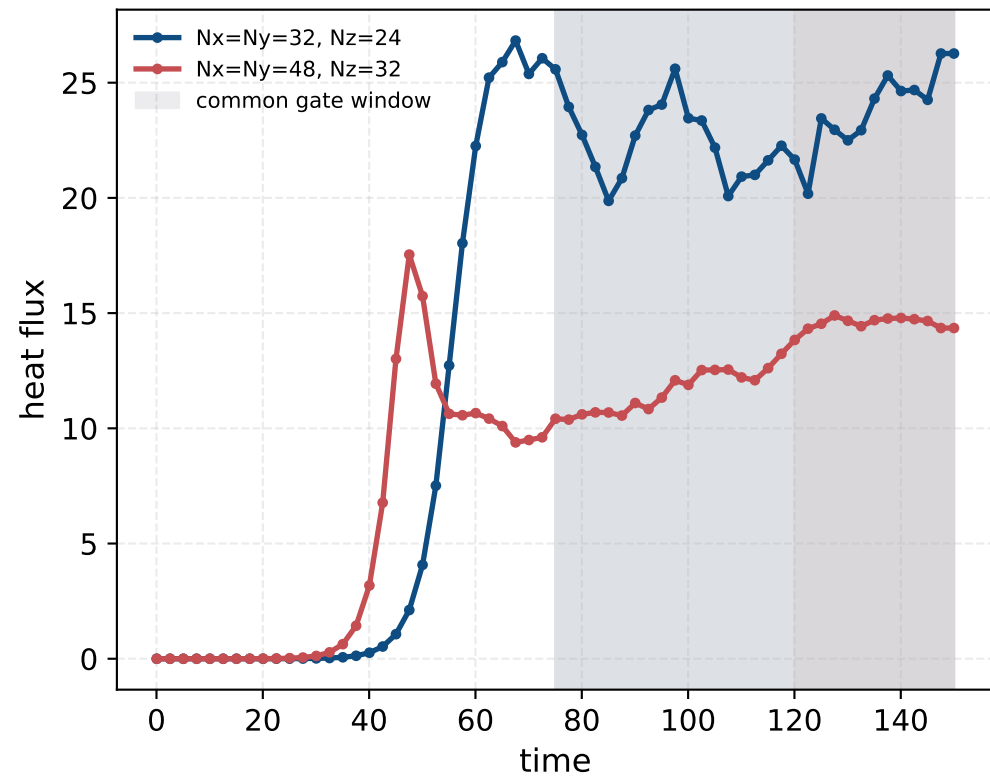
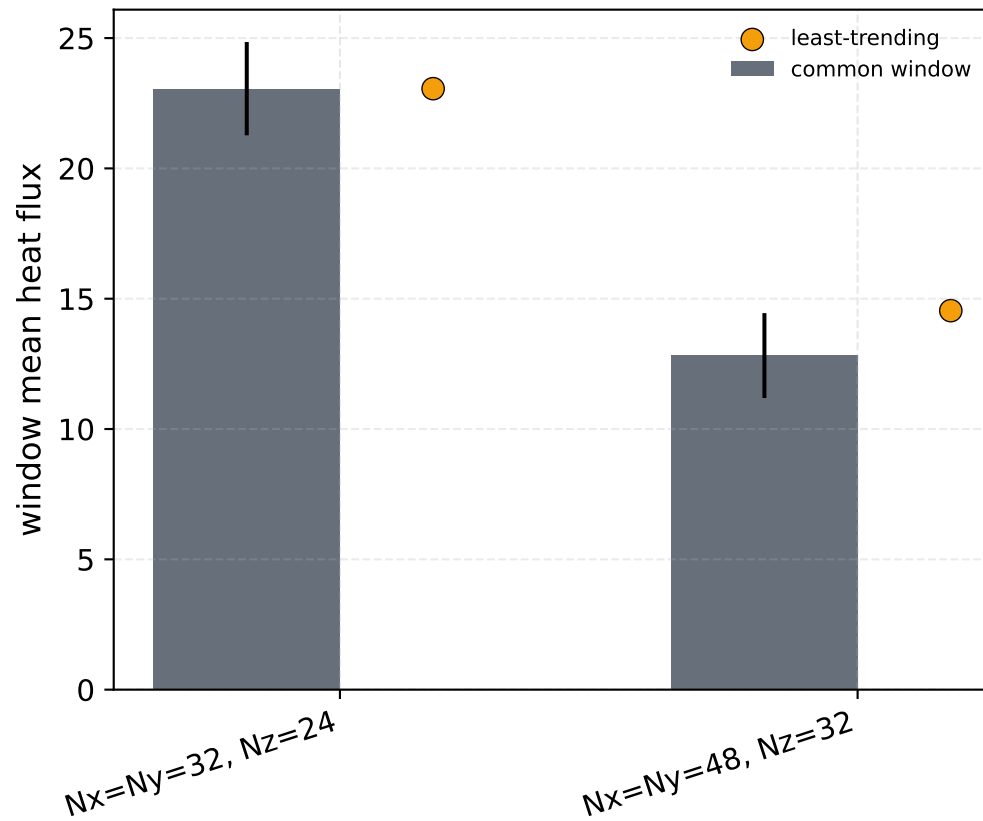


External VMEC CTH-like nonlinear convergence gate

CTH-like nonlinear traces



Grid-refined window means



Gate status: FAIL

common rel. grid diff: 0.571

least-window rel. grid diff: 0.453

allowed grid diff: 0.150

common start fraction: 0.50

Failed metrics:

- common trend: $0.00542 > 0.002$
- common grid difference: $0.571 > 0.15$
- least-window grid difference: $0.453 > 0.15$

Interpretation:

finite external-VMEC pilot,
but not a transport holdout until
late-window and grid agreement pass.