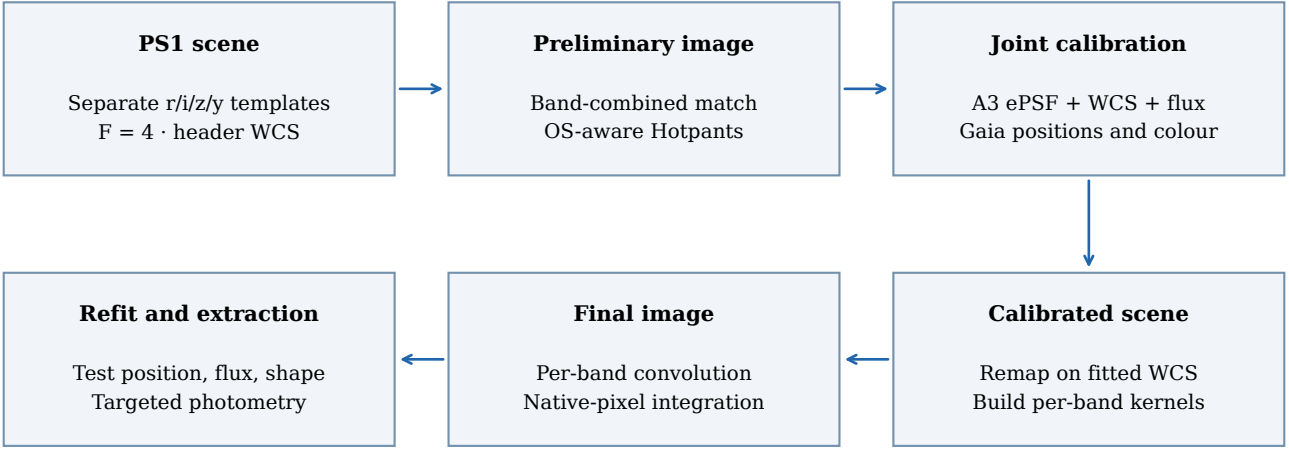


Image-level harmonic background preparation precedes fitting; held-out validation is a separate gate.