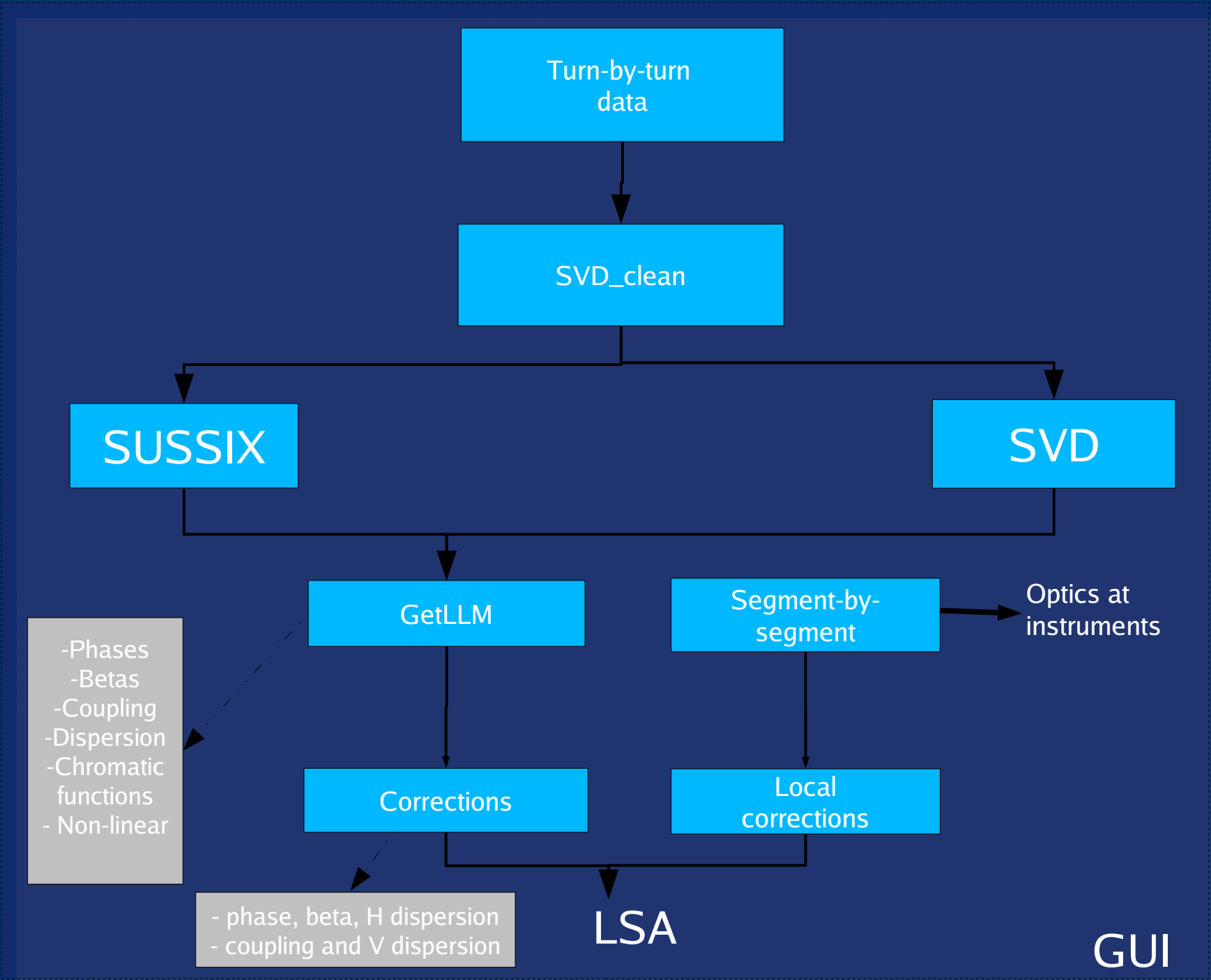


Beta-beat code review





- Phases
- Betas
- Coupling
- Dispersion
- Chromatic functions
- Non-linear

- phase, beta, H dispersion
- coupling and V dispersion

LSA

GUI

Algorithms:

- Running simulations to test implementation of new algorithms. (Glenn, ?)
 - SVD clean: faster python script has a bug. Possibly even faster with Java. (Glenn)
 - Distributing the code (Glenn), parallelization of SUSSIX (Ewen, ?)
 - SVD: there are two things to do:
 - Get it up and running again for the LHC (Rama, Ryoichy, ?).
 - Coupling (Rama, Ryoichy, ?).
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Algorithms (2)

- Automate computation of chromatic functions. For the moment this is done manually (Glenn)
 - Have a look at the non-linear functions, e.g proper implementation of phases (Glenn)
 - Segment-by-Segment:
 - Write a proper filtering for BPM's (Glenn)
 - Output everything for elements: C-Matrix, angle of the beam, chromatic functions,... (Glenn)
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Interface /GUI

- Beta-beat:
 - Generation of model (Glenn)
 - Model improvement /PTC (Carmen, Ewen, ?)
 - Extract logged data from database, e.g tune, ac-dipole,... (Glenn)
 - Upgrading interface (Glenn):
 - Currently working on BPM panel
 - Analysis panel
 - Correction panel:
 - Finalize with tune correction
 - Model check
 - Update knob application (with new release of LSA API)
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New application

- K-modulation:
 - First step is to measure β^* .
 - Second step is to measure β for any other quad.