

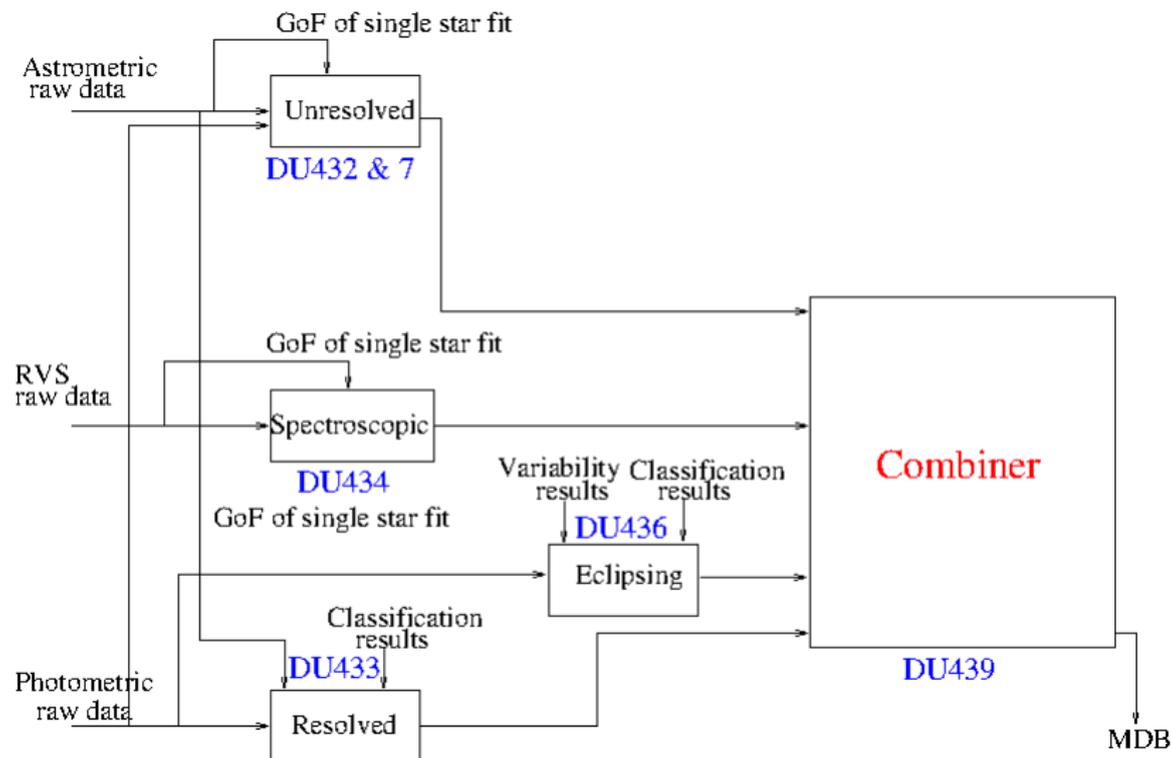
Non-Single Star validation

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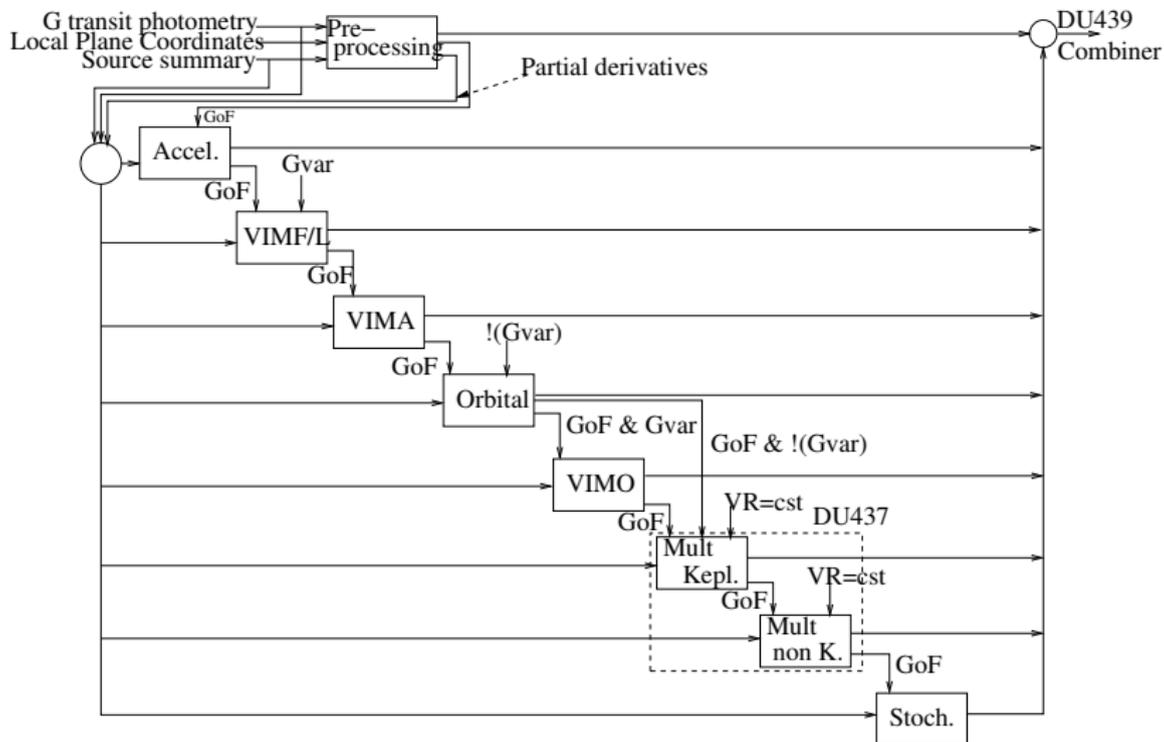
2015-11-20

Detection and processing on the fly



Cascade of models

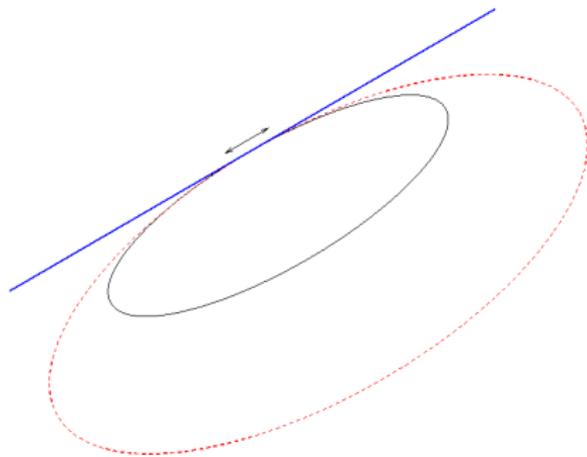
The duration of the Gaia mission will prevent every binary detection from being changed into an orbit.



Validation

Besides the CU4 internal assessment of the solutions, CU9 validation takes advantage of external data:

- ▶ Literature (WDS, SB9, ...) contains orbital solutions only;
- ▶ How does one compare a partial solution with an orbit?



- ▶ Halbwachs (JLH-012) addressed the restriction of an astrometric orbit to a time interval but what about spectroscopic binaries?
- ▶ A residual-based approach could be more general (model-free) without really being more time consuming.

Present status

- ▶ Framework in place
- ▶ By construction, NSS come out later than the rest of most DPAC data
- ▶ Despite DPAC Operational Rehearsal 5, few/no NSS available yet
- ▶ Hipparcos Catalogue could be used as a temporary experimental set (assuming some DMSA/G turned into orbits over the past 20 years)