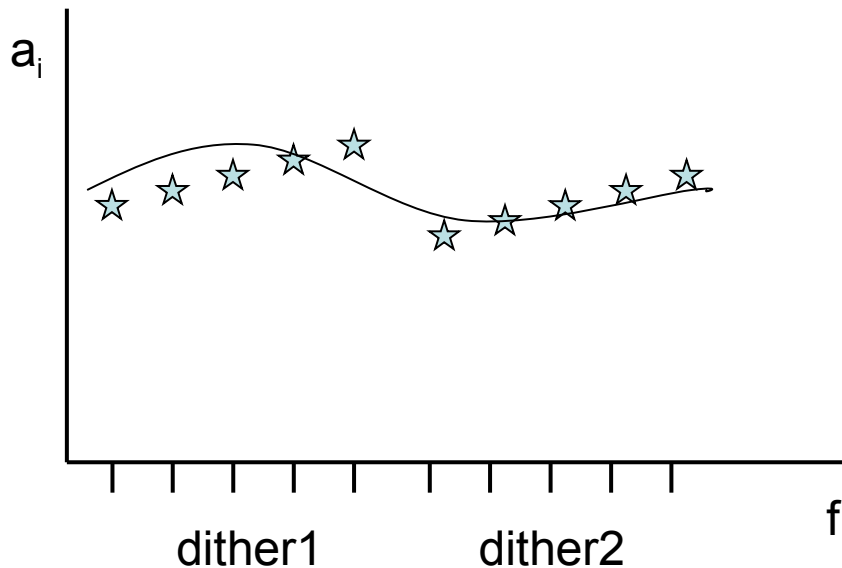


Astrometry update

- Modifications to astrometry pipeline
 - Transport Idac fits tables ➡ python DB
precision loss
 - Global astrom algorithm
reminiscence from Denis days. Overlap used
average position gnomonic grid. Now correct
local gnomonic grid
- Max PV polynome
 - 3d restricted by DB parameters

Astrometric update

- Global astrometry boundary condition
 - $X = a_0(f) + a_1(f) x + a_2(f) y + \dots$
where $a_{i0}(f) = 1$, $a_{i1}(f) = f$, $a_{i2}(f) = 2f^2 - 1$, ...
chebychev polynome



Astrometric update

- Ways to go
 - Global astrom individual or consecutive dithers
 - Then combine regridded frames
- Global pool
 - Denser reference grid \longrightarrow tighter fit
 - Multiple determination of same object combined
- Alternative
 - Disjunct chebychev polynomes
 - Combines overlap information widely different dithers

Astrometry update

- The LBC case
 - Pre-pipeline (needs python mods)
 - Apply radial deformation on (X,Y) values in catalog
 - Use this catalog to pre/aplastrom and associate
 - Use original catalog + pairing for astrom
 - In-pipeline (needs c-code + algorithm mods)
 - Implement alternative to AFFINE deformation in pre/aplastrom