

Now you will have residuals for all galaxies
for all ~~years~~ epochs.

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(2)

residuals epochwise.

↳ take median epochwise $\overline{\Delta RA_i}$

update RA values for each galaxy as epochwise

$$RA_{New}^k_i = RA_i^k - \Delta RA^k$$

k - epoch
 i - galaxy

$$RA_{New}^k = \text{median}(RA_{New}^k_i)$$

Pixelisation.

- generate pixels.
- pixel centers — ~~not~~ each pixel will have a center
↳ which in turn will have a number.
 - angles (θ, ϕ)
- convert $(\theta, \phi) \rightarrow (RA, DEC)$

Obj	RA	DEC
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

→ test file

~~pick an obj id (preferably in the center)~~

- get the range of (RA, DEC) of data.
- pick the center of this as your pixel center.

Now you are only considering one pixel.

- get all the obj-ids belonging to that pixel.
- you know the (RA, DEC) of center.

get all obj-ids of galaxies who are at $(10')$ dist
from this center.

SEARCH radius

↳ use `sphdist()` function here.