objid ra dec raErr decErr nObs mjd sg-g sg-r sg-i test.txt (1)

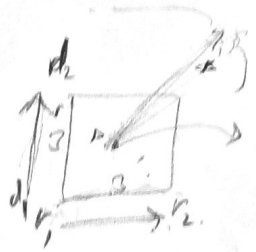
18/5/2015

ra — R_{new}^{k}

dec — D_{new}^{k}

if $\overline{R.A}$

update array



$\rightarrow \frac{r_1 + r_2}{2}, \frac{d_1 + d_2}{2}$

search Radius $= \frac{r_1 + r_2}{2} + 10'$

for (Δr (= $r_{\star} - r_{\triangle}$) $\leq 10'$)

- this method not valid for Dec ~ 90°

for Dec ~ 0

$\Delta RA \Rightarrow$ actual dist.

for Dec ~ 90

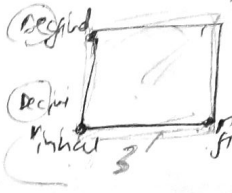
ΔRA can be large, for galaxies not actually far away.

so you calculate actual "spherical coord distance" and then convert it to deg/arc minutes/sec.

and check if less than 10'.

- pick a RA/DEC value.
- ~~build~~ → RA initial, DEC initial.

take a 3' pixel/box



RA initial, DEC initial $\xrightarrow{3'}$ RA final, Dec final

- Collect all galaxies within this pixel in array!
  - ↳ calculate — to build this pixel — ∀ need to calculate distances?
  - ↳ skip making a pixel right now. ← Pixelisation methods later.

RESTART.

(1) → take a center: RA, DEC value — (do a simple $RA_1 - RA_2$)

- ↳ make a pixel around it
- ↳ obtain the galaxies within it — store in another array. "the update array."

(2) → from the center,

calculate distance corresponding to searchRadius = 10'

collect all galaxies lying within this — in 'search array'.