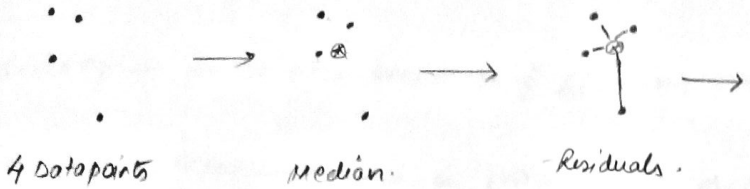


4 datapoints median. Residuals.

Year \ Galaxy	1	2	3	4	..
1					
2					
3					
4					

ΔR_i^k → col, row.

for all Galaxies.

ΔR_i^k Galaxy 1 2 3 4 5 . . .

Year

1 ——————————————————

2

3

4

"Residual for every year"

$\overline{\Delta R_1}^k = Med(\Delta R_1^k)$

$\overline{\Delta R_2}^k = Med(\Delta R_2^k)$

$\overline{\Delta R_3}^k = Med(\Delta R_3^k)$

$\overline{\Delta R_4}^k = Med(\Delta R_4^k)$

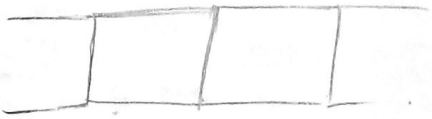
$$R_{new\,i}^k = R_i^k - \overline{\Delta R_i}$$

$$R_{New}^k = Med(R_{new\,i}^k)$$

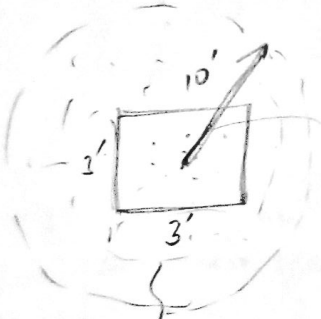
↳ one dataset.

you also need to take care of "edge effects"

so you 'smoothen' out



CCD.



search radius

10' ≈ 100 galaxies approx.

use the circle —— to calculate $\overline{\Delta R_i}$

update only the box. $R_{New\,i}^k$

keep it one third of search radius.