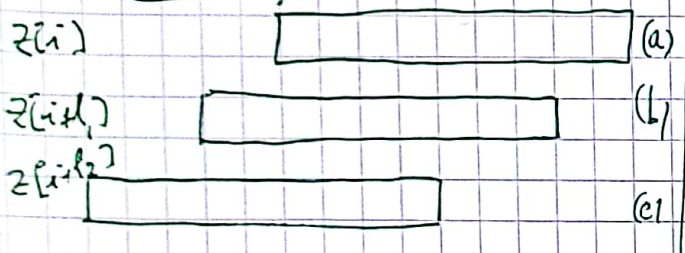


Big TRA:

April 12
2018



in this drawing, $l_1 \geq 0, l_2 \geq 0$.

to have overlap:

$$(a) - (b) : -(L-1) \leq l_1 \leq L-1$$

$$(a) - (c) : -(L-1) \leq l_2 \leq L-1$$

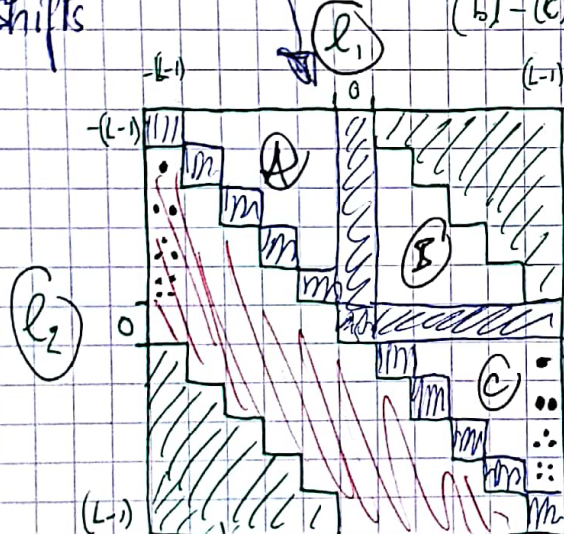
$$(b) - (c) : -(L-1) \leq l_2 - l_1 \leq L-1$$

bias when two shifts
on the same:

$$l_1 = 0;$$

$$l_2 = 0;$$

$$l_1 = l_2;$$



$$L=6$$

outside these
bounds,
the three copies do
not all overlap.

excluded by (b)-(c) overlap

not needed by symmetry $(l_1, l_2) \sim (l_2, l_1)$

other symmetry: $(l_1, l_2) \sim (-l_1, l_2 - l_1)$ see points: doesn't remove
 $(\sim (l_1 - l_2, -l_2))$ anything extra:

also tried numerically
on bigger examples.

The three triangles A, B, C all
give exactly the same information.

SEE selecting moments. m

+ bias exclusions.

B is: $0 \leq l_1 \leq (L-1)$, $-(L-1) \leq l_2 \leq 0$ and $l_1 - l_2 \leq (L-1)$