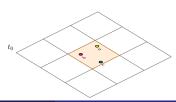
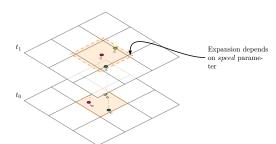
PFLOCK Report

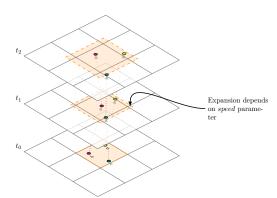
Andres Calderon

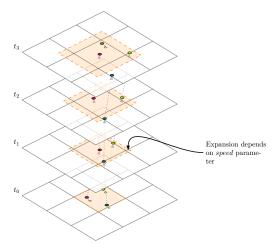
University of California, Riverside

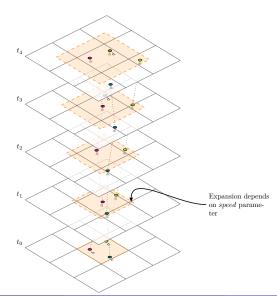
October 25, 2019



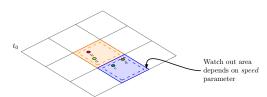


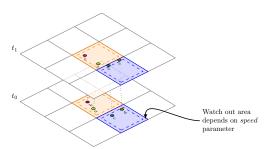


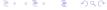


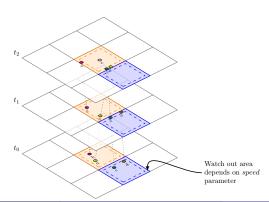


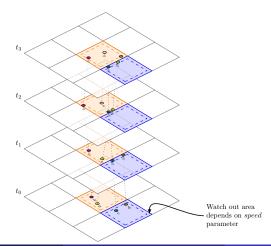
- ► Each partition expands according to the **speed** parameter, so it will have the information of all the trajectories which start on it.
- ▶ Flocks a and b start in the partition (1,1). Flock a starts and ends inside of the partition. Flock b leaves the partition but remains inside the expansion area. Both will be reported.
- Flock c starts in the partition (1,1) but leaves the expansion area at time 3. It will not be reported.
- Even flock d starts and end in partition (1,1), it will not be reported because it did not begin at the start of the window (it does not meet the δ parameter).

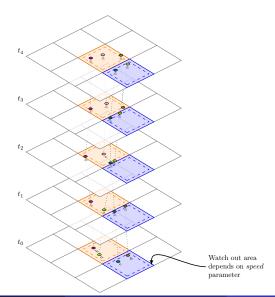












- ► Each partition is divided into "watch out" and "safe" area according to the **speed** parameter.
- Each partition remains fixed and it will report flocks which start and end inside of it if they meet the δ parameter (i.e. partition (1,1) will report flock b but not flock e).
- ► Each partition has to report flocks if they start or end on its "watch out" area. They must be post-processed to check it they can be concatenated.

 \triangleright For example, for flocks a, c and d we have:

Partition (1,1)	Partition (1, 0)	Concat
$a_{t_0-t_2}$	$a_{t_3-t_4}$	$a_{t_0-t_4}\sqrt{}$
$c_{t_2-t_2}$	$c_{t_0-t_1}$	$c_{t_0-t_4}\sqrt{}$
	$c_{t_3-t_4}$	
$d_{t_3-t_4}$	$a_{t_0-t_1}$	×