

## Filter Lock

$n$  threads, trying to execute some code.  
That contains a part that is "critical section" (only one at a time can execute.)

\* Levels, victims array  
↓

thread is at which level

levels helps keep track of priority, later threads are at lower levels, helps with fairness

victim is at each level, the later coming thread becomes victim allowing the before "victim" to proceed.

waiting condition  $\rightarrow$  both are satisfied then

- Some other thread is <sup>only wait</sup> waiting at the current level (this thread wants to enter) or at a higher level.

- If the current thread is still the victim