

Seismology Alarm Mode (SAM)

12000 windows
512 sec

1000 windows
32 sec

Al

Oversampling: 500 windows available / 50 for AP ?
per CCD

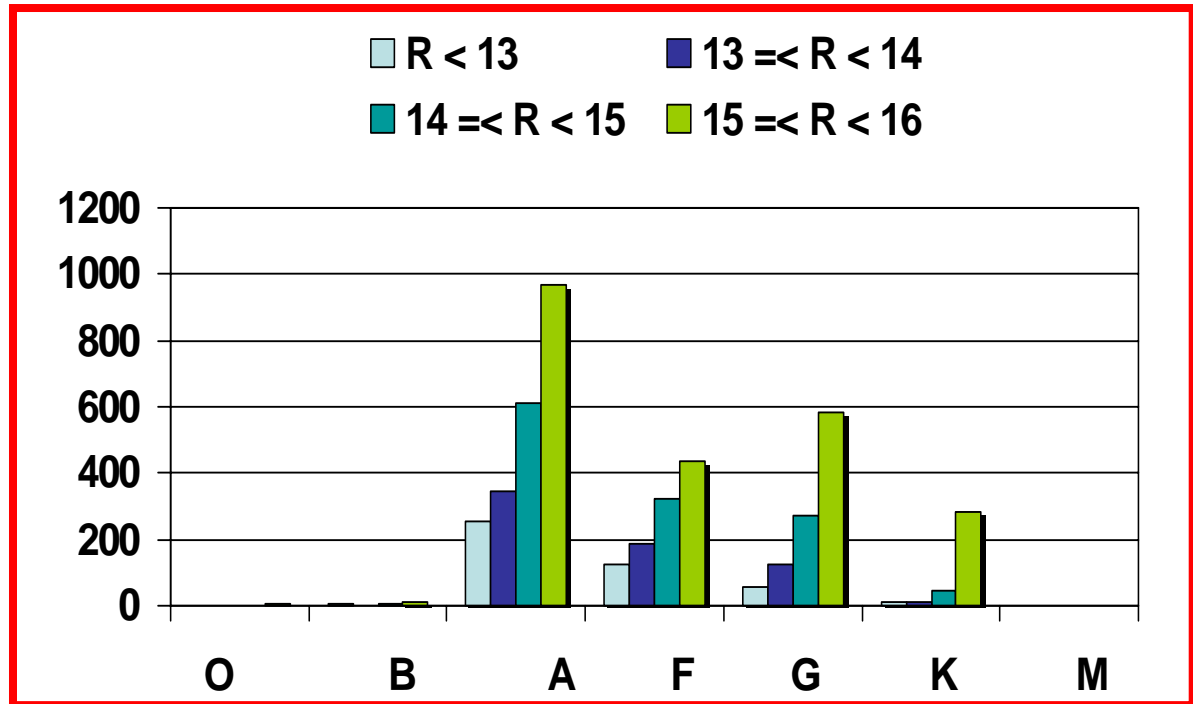
- high priority: planet candidates (RV obs + BEST)
- known eclipsing binaries (BEST observations)
- bright targets through the HR diagram and over the whole CCD surface : calibration targets
 - F, G, K & M dwarfs stars - ($R < 15$)
 - A-type stars - ($R < 15$)
 - A, F & G giants - ($r < 15$)

All the selected stars should have a low contamination level!

Question : is it really needed to over-sample stars fainter than $r=15$?

LRa1 - CCD E2 :
Total dwarfs : 6117
 contam. < 10% 5003
Total giants : 1762

LRa1 - CCD E1 :
Total dwarfs : 6056
 contam. < 10% 4835
Total giants : 1612



- 20 windows for known planet candidates
- 10 windows for known EB + periodic variables stars
- 120 windows F, G, K & M dwarfs with $r < 13$
 40% of F-type dwarfs and 100 % G & K (& M if any ..) oversampled
- 120 windows F, G, K & M dwarfs with $13 \leq r < 14$
 F : 30 % G : 50% and K & M : 100 %
- 50 windows F, G K & M dwarfs with $14 \leq r < 15$
 F & G : 5 % K & M : 100%
- 50 windows for A dwarfs with $r < 15$
- 50 windows for giants with $r < 15$ and spectral type F, G & K
- 30 windows F G K & M dwarfs with $r > 15$ - a few % of this population

Oversampling: 500 windows available / 50 for AP ?
per CCD

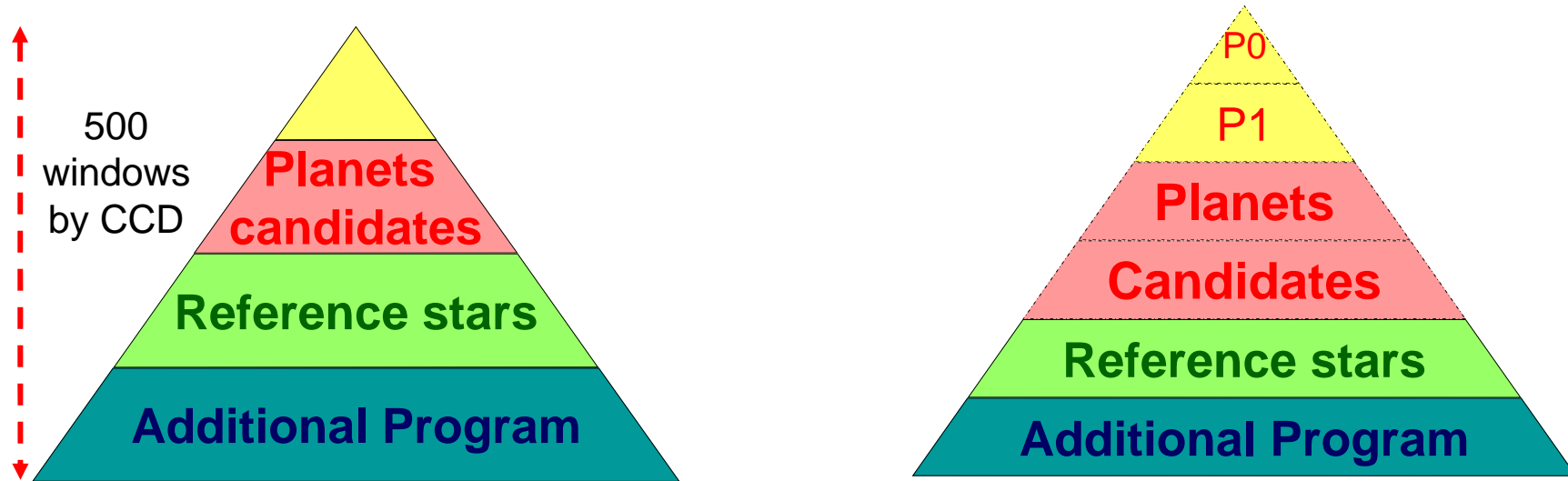
- high priority: planet candidates (RV obs + BEST)
- known eclipsing binaries (BEST observations)
- bright targets across HR diagram and whole CCD surface:
calibration targets (low contamination level)
 - F, G, K & M dwarfs stars - ($R < 15$)
 - A-type stars - ($R < 15$)
 - A, F & G giants - ($r < 15$)

Possible AP problems:

- missing B & O stars
- no DFT involved – only “noise level” i.r.t. transits
- elimination of “high noise” calibration targets

 nuggets for the AP

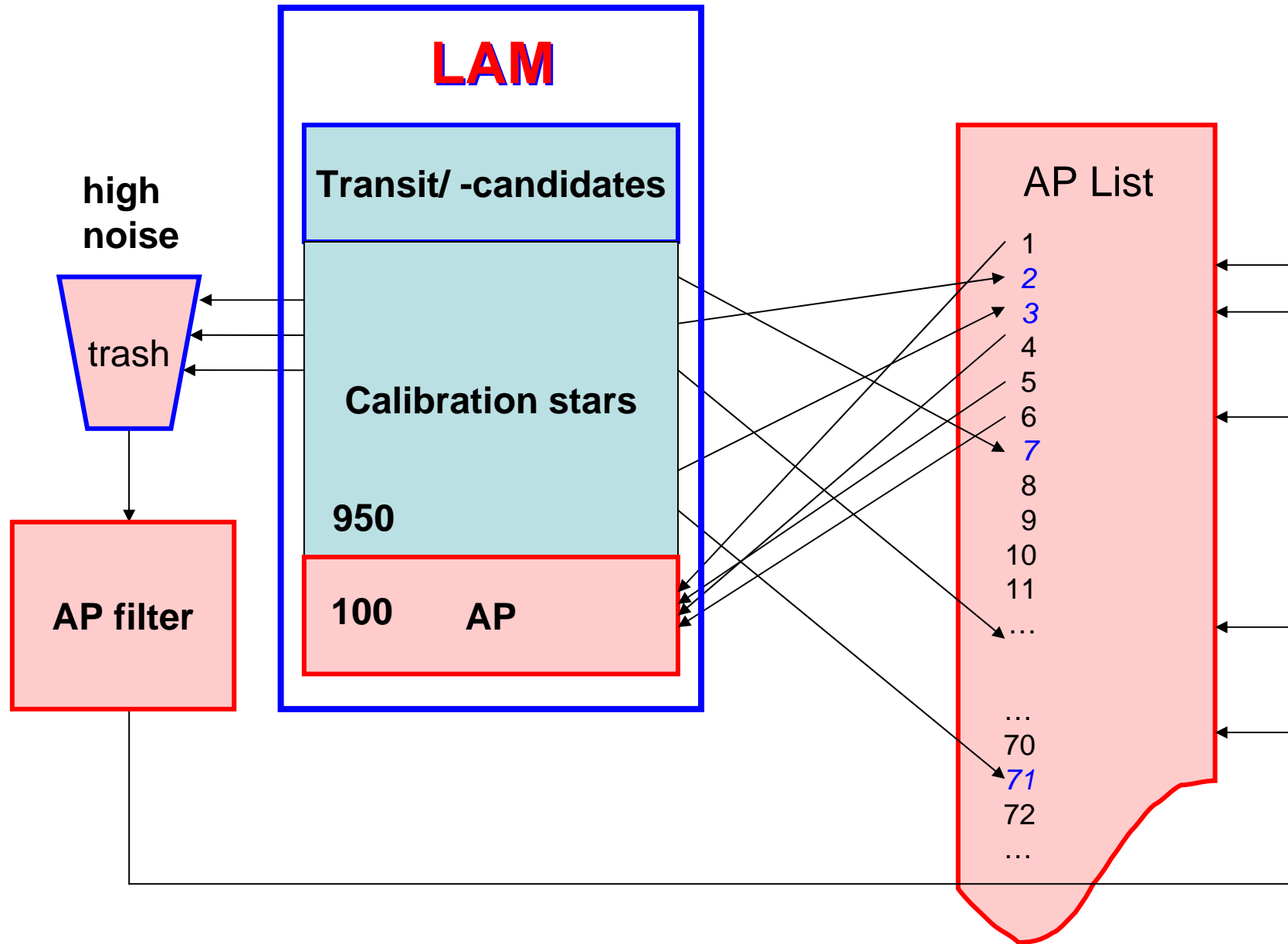
List Management



- **At the beginning of a run,** the initial list is built with:
 - the planet candidates known by preliminary ground surveys,
 - some reference stars chosen within the HR diagram,
 - and *some* **50** targets defined by the additional program

- **Along a run,** the list moves as new planet candidates will be found and sorted by priority levels (P0, P1,...).
- some reference stars will be removed (**AP !!!**)
- **50 windows** will be devoted to the **additional program** (defined at the beginning of the run)

AP List Management



AP Agenda

- Define targets of interest for 32^s windows
 - Initial list:
 - Approved AP proposals
 - Updated list
 - Approved AP proposals
 - Variable star flags
 - Individuals, proposed by community
- Internet discussion forum - ad hoc
- Approve rules at next CSW/SC