





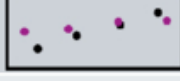



Figure A1. from

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Detection code	Detection code number	Explanation	Picture (if applicable)	Submitted to MPC?
no_overlap	0	Hit does not overlap another hit in any frame		Yes
overlap_samepatch_highmle	1	Hit overlaps another hit in the same patch , but this detection is from the hit that had the highest MLE and is the only hit listed in the SQL table		Yes
overlap_differentpatch_highmle	2	Hit overlaps another hit in a different patch , with this detection having the highest MLE at this frame , not necessarily this frame that overlaps		No
overlap_differentpatch_lowmle	3	Hit overlaps another hit in a different patch , with this detection not having the highest MLE at this frame (for unknown or known objects)		No
merged_detection	4	A combination of two or more hits from two or more patches that includes the point from the highest MLE detection in each frame		Yes
lone_detection	5	Hit only has one detection with new astrometry, and therefore should not be sent to the MPC		No
large_res_detection	6	SALTAD residual RMS > 3" for the hit		No
toomany_unknown_hits	7	Unknown hit is one of > 10 for its patch, and is therefore unreliable		No
neardup_detection	8	Detection is < 5 arcsec from another detection in the detections table, but the hit doesn't overlap another hit		No
badbright_hit	9	Hit was flagged as a comet candidate, but is an artifact from a known object upon inspection		No
hand_elim	10	Hit was eliminated by hand after submission to the MPC for reason specified in comments column		Yes