



## WISE Operations MMR

## IPAC/WSDS Weekly Status ReportR. Cutri, T. Conrow, J. Bauer, R. Beck,D. Kirkpatrick, F. Masci, L. Yan





## W1,W2,W3 electronic gains and read-noise



- from 55 consecutive scans with 1.1 sec exposure time, scans: 08252a 08293b [acquired Sep 13 14]
- based on fitting simple noise model to robust frame variance vs. mode background in single scans
- W1, W2 gains down from nominal => more DN/Jy for fixed Q.E. => higher throughput!?
- W3 is up from nominal => fewer DN/Jy for fixed Q.E. => lower than predicted for 1.1 sec exptime (from nominal 8.8 sec)



nominal





## W3 Level-0 frame differential background for 1.1 sec



- explored time dependence in W3 background gradient from edge to middle of array as a possible diagnostic for saturation

- middle of array has effectively an additional 1.1 sec of integration and is expected to saturate first
- early scans show increase in difference since middle increased more slowly, then became stable onset of non-linearity?



