

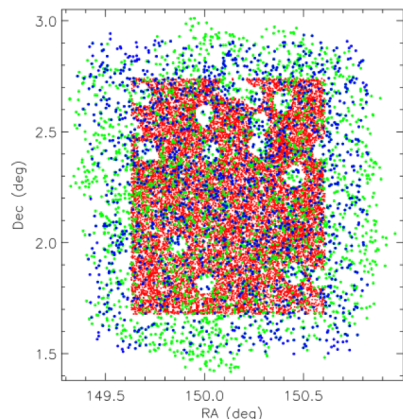
Searching for AGNs through variability: the lesson learned from VST transient surveys

M. Paolillo (Federico II University, Napoli, Italy)

3 year SN survey of the COSMOS & SERVS/CDSF field with the VST telescope

The COSMOS Field

VST XMM-Newton Chandra

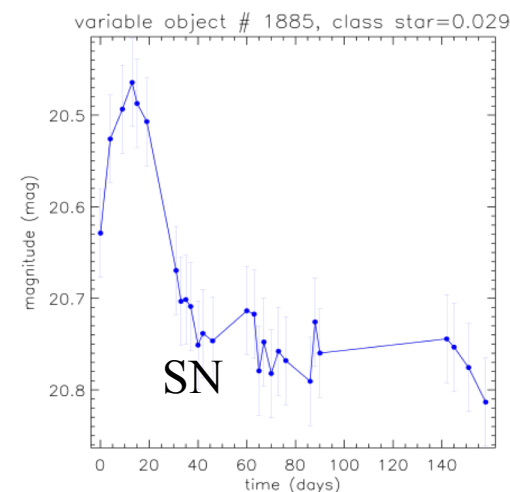
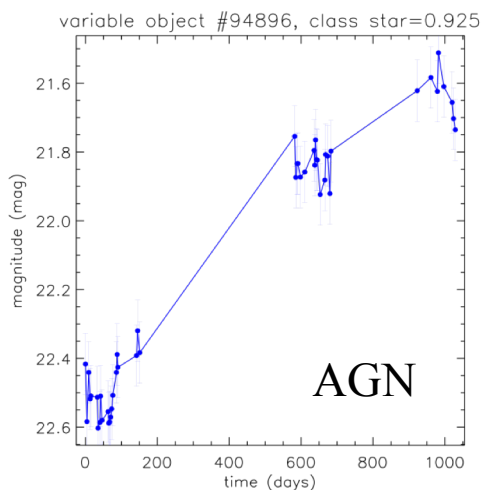
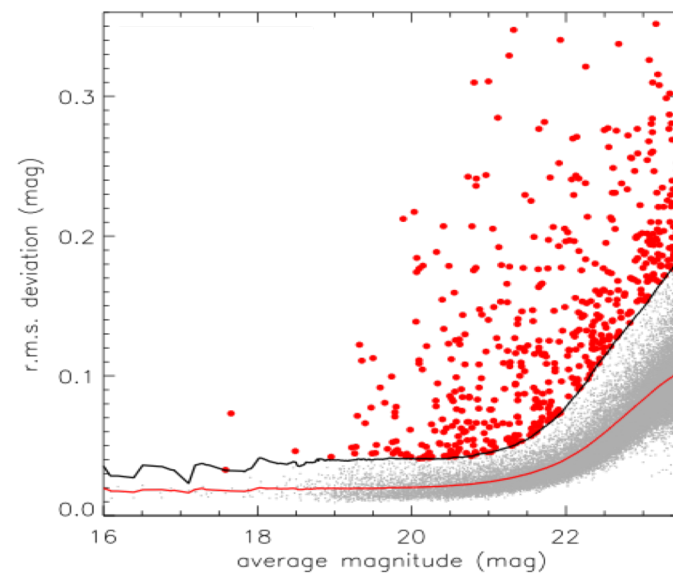
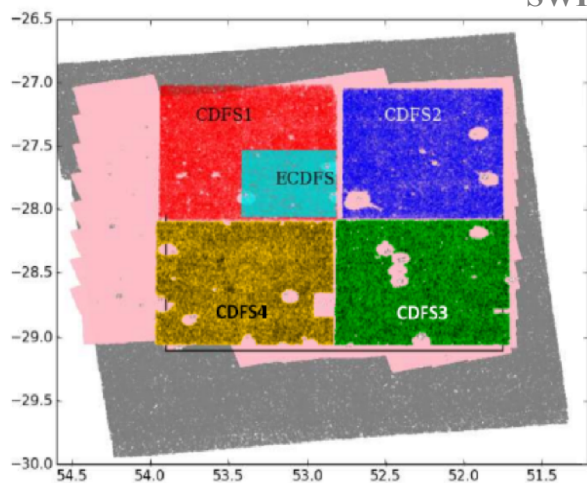


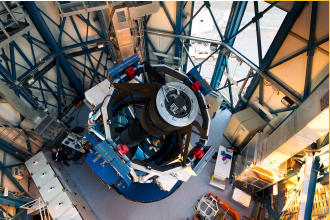
Cadence:

- r band every 3 days,
- g,i bands every 10 days

The CDFS/SERVS Fields

SERVS
SWIRE





Detection efficiency: completeness and contamination

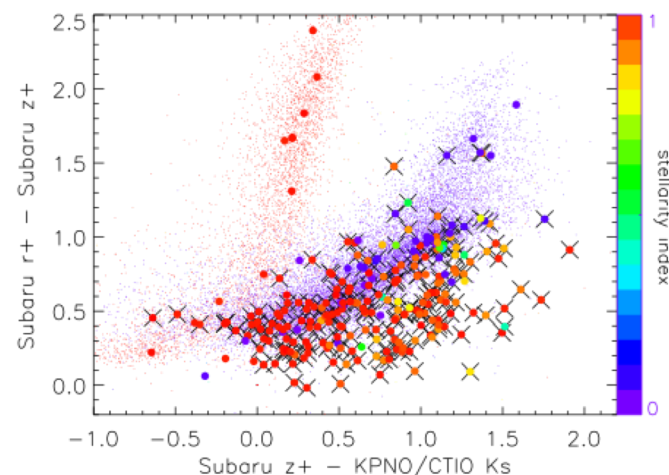
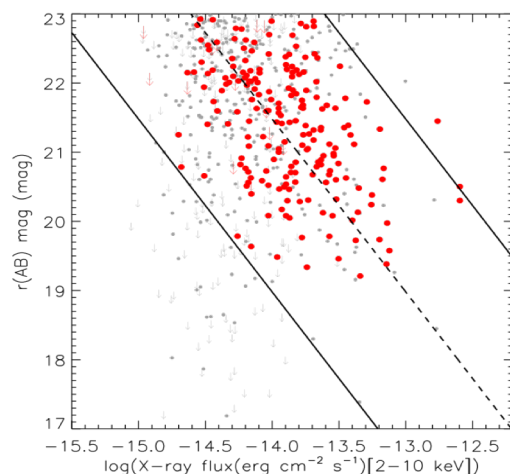
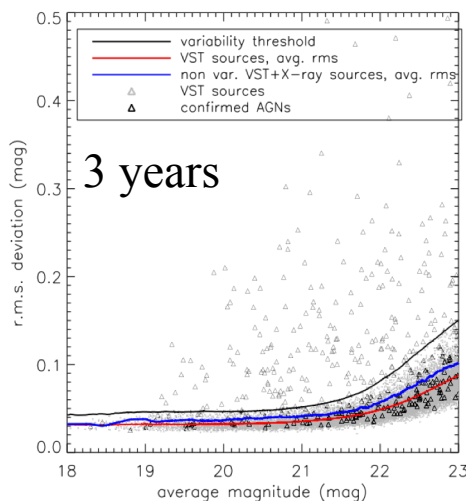
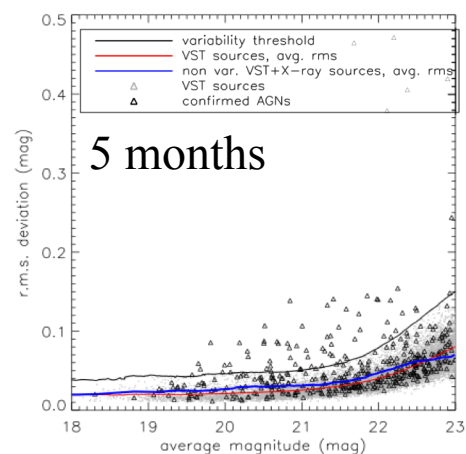
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Completeness wrt X-ray:

41% over 3 yr baseline

Purity of the sample: > 83%

wrt X-ray, optical, IR diagnostics



Take away message:
very effective approach for
LSST: need to improve to
detect more low-lum and
type 2 AGNs

