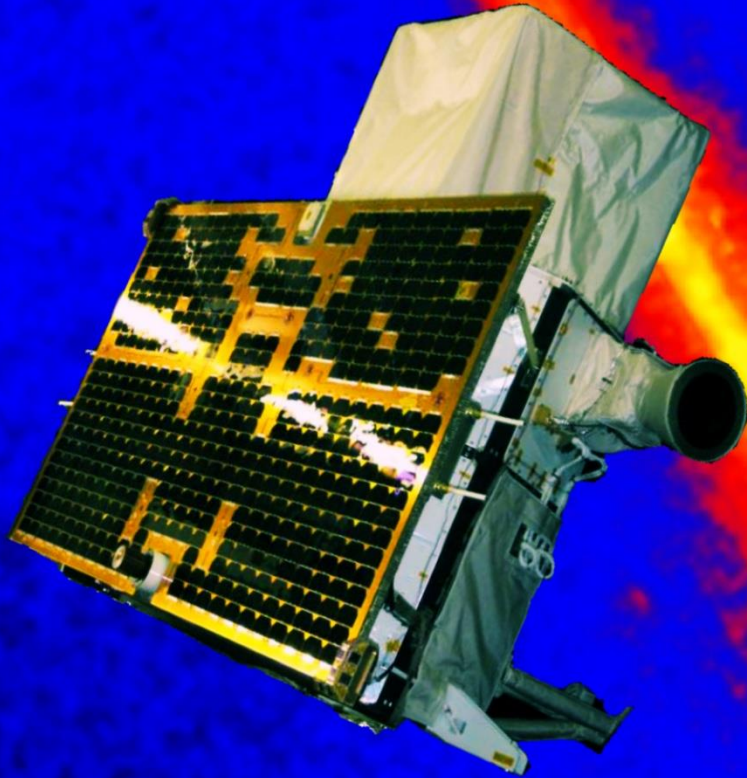


The AGILE Mission



- AGILE combines imaging co-aligned detectors
 - gamma rays (30 MeV – 30 GeV) [2.5 sr]
 - hard X rays (18 - 60 keV) [1 sr]
- Calorimeter (MCAL) 4π acceptance (0.4-100 MeV)
- AGILE in equatorial orbit, in spinning mode, it covers 80% of the sky

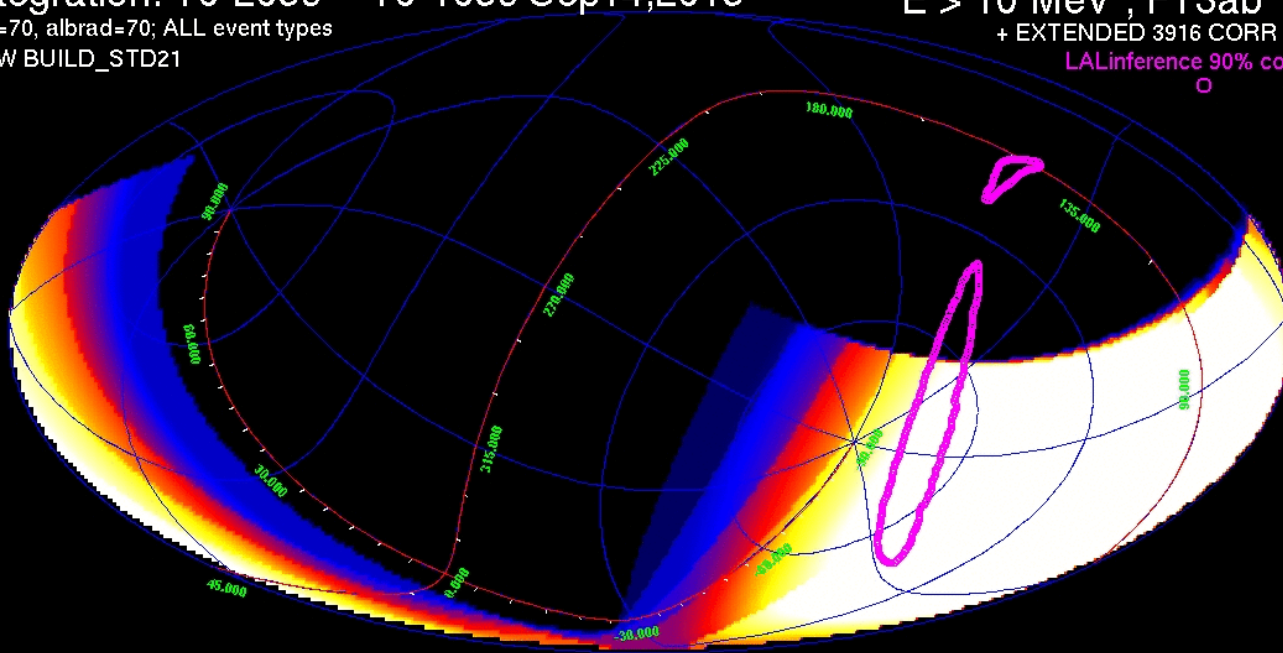
F. Verrecchia, on behalf of the AGILE Team

optimal sky coverage, 80% of the sky (modulo Earth occultations and SAA)

GW150914

Integration: T0-205s -- T0-105s Sep14,2015
fov=70, albrad=70; ALL event types
NEW BUILD_STD21

$E > 10$ MeV ; FT3ab
+ EXTENDED 3916 CORR
LALInference 90% contour



200 passes/day
for accessible
regions

much improved
data acquisition

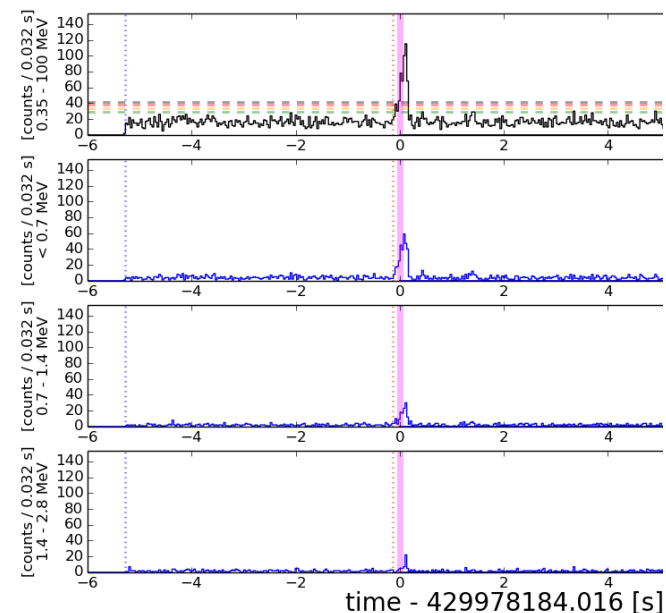
example: AGILE-MCAL new detection pipeline

MCAL automatic detection:

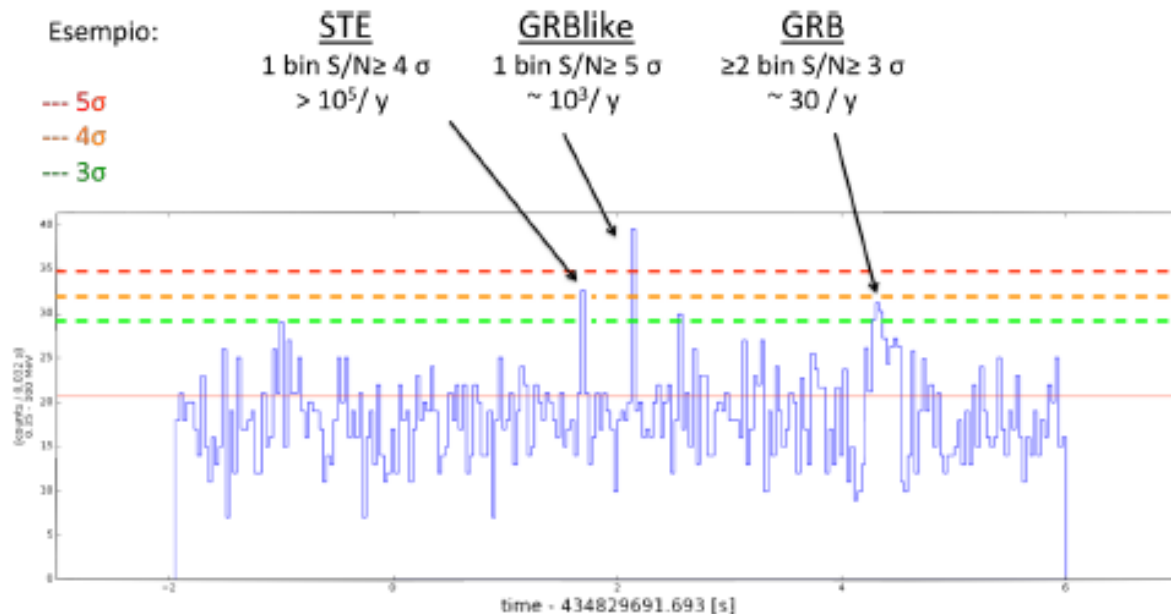
- 1) standard GRBs (short & long),
- 2) GRB-like (single+S/N > 5 σ),
- 3) Sub-Threshold Events (STEs, single+S/N \geq 4 σ).

example: short 170816A,

CONT 053441 - BIN 0.032 s - TO 4299



differences among the three classes



Thank you