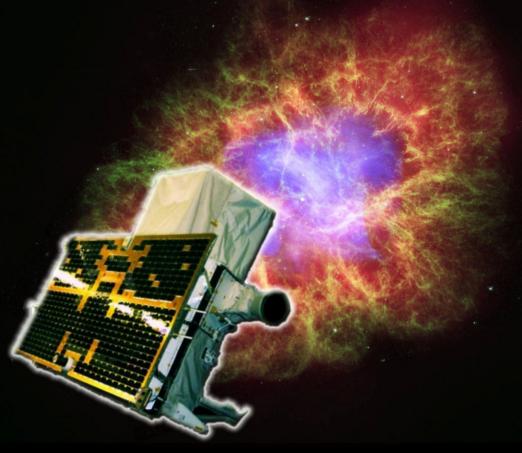
## AGILE in its 10-th year in orbit

 excellent sensitivity, FoV & speed for searches of GW sources: a dedicated program

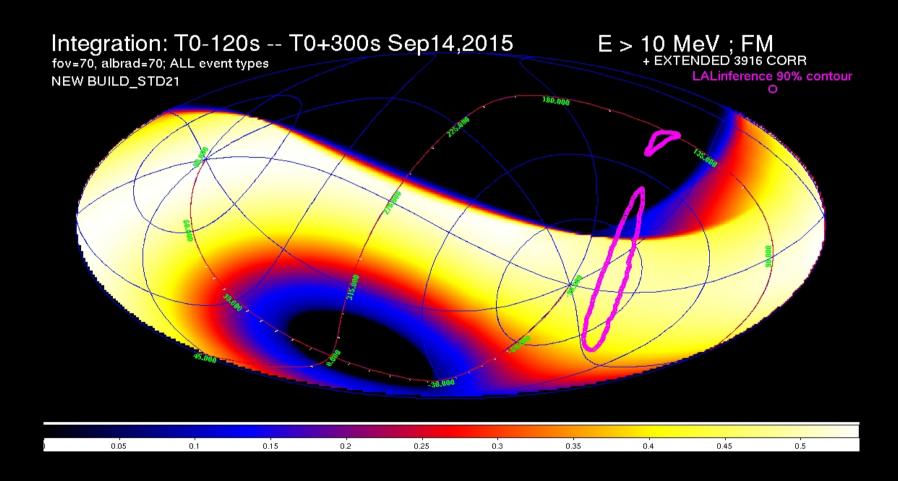


- nominal performance
- ideal in the range
  50 MeV 1 GeV
- the fastest response (1-2 hrs) to transients
- Galactic & extragalactic science
- 2-nd AGILE Catalogue
- unique for terrestrial gamma-ray flashes

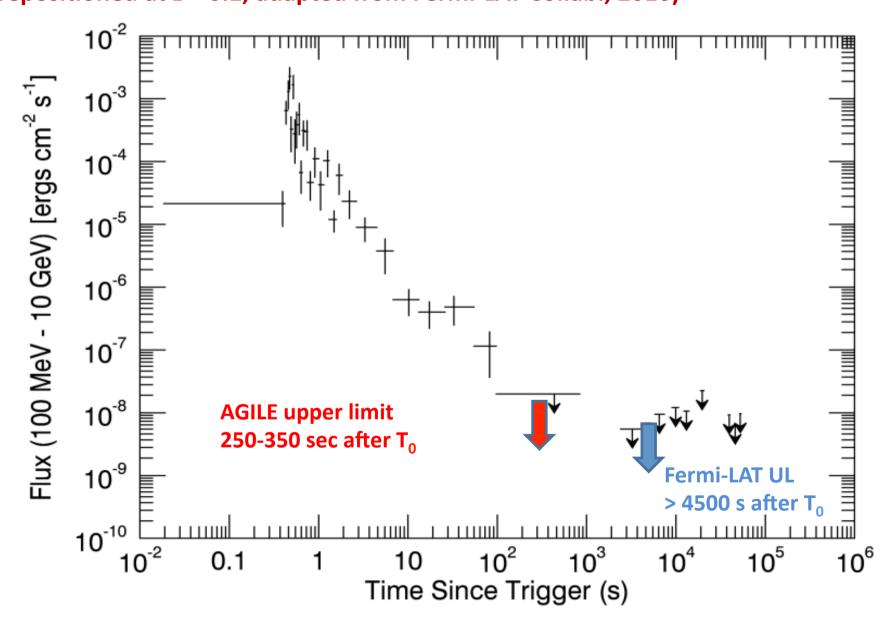
## **AGILE and GW astrophysics**

- new operational mode for AGILE
- very fast reaction to external GW trigger
- new processing pipeline
- great potential for fast discovery of gamma-ray transients associated with NS-NS, NS-BH, and BH-BH coalescences
- AGILE-GW new Key Project: AGILE can play a key role in the study of GW waves

## AGILE in spinning: revolution including T<sub>0</sub> of GW150914



## AGILE and Fermi-LAT upper limits in the GRB090510 lightcurve (repositioned at z = 0.1, adapted from Fermi-LAT Collab., 2016)



AGILE-GRID provided the most stringent constraint to any delayed emission above 50 MeV shortly after the GW150914 event

AGILE-MCAL did not detect the transient reported by the Fermi GBM team

Great potential for AGILE observations of GW error boxes: prompt, minutes, hours, days