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observations

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(SSDC, and INAF/OAR), A. Bulgarelli, V. Fioretti, N. Parmiggiani (INAF/OAS-Bologna), M. Pilia (INAF/OA-Cagliari), report on behalf of the AGILE Team:

In response to the LIGO-Virgo GW event S200213t at T0 = 2020-02-13 04:10:40.328 (UTC) a preliminary analysis of the AGILE exposure at T0 shows that the Gamma-Ray Imaging Detector (GRID) exposure covered the 32% of the 90% c.l. localization region (LR) (4% of 90% c.l. LR is

occulted by Earth).

We performed an analysis of the GRID data in the energy range 50 MeV - 10 GeV on T0, where good exposure of the S200213t 90% c.l. LR was available.

No candidate gamma-ray transient was detected.

The following preliminary GRID values of 3-sigma upper limit (UL) are obtained:

from 8.7e-07 to 7.2e-06 erg cm⁻² s⁻¹, with exposure of about 32% of the LR over the time interval (T0 -2s; T0 + 2s); from 3.3e-07 to 6.4e-06 erg cm⁻² s⁻¹, with exposure of about 38% of the LR over the time interval (T0s; T0 + 10s); from 3e-08 to 1.5e-06 erg cm⁻² s⁻¹, with exposure of about 48% of the LR over the time interval (T0s; T0 + 100s);

These measurements were obtained with AGILE observing a large portion of

the sky in spinning mode. Additional analysis of AGILE data is in progress.