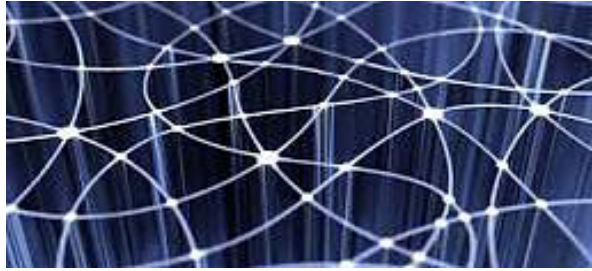


High-performance Signal and Data Processing: Challenges in Astro- and Particle Physics and Radio Astronomy Instrumentation



Contribution ID: 5

Type: **not specified**

The Data Pipeline of the AGILE Space Telescope

AGILE is an Italian Space Agency mission dedicated to observing the gamma-ray Universe, combining a gamma-ray imager (sensitive in the energy range 30 MeV–50 GeV), a hard X-ray imager (sensitive in the range 18–60 keV), a calorimeter (sensitive in the range 350 keV–100 MeV), and an anticoincidence system. AGILE was successfully launched on 2007 April 23 and continues to observe the gamma-ray sky today. Here we present the data pipeline of AGILE, from the silicon strip detectors, electronics, and on-board triggers of the instrument, through the telemetry, transmission to the Data Center, processing, analysis, and archiving, to the provision of data, software, and catalogs to the instrument team, guest observers, and the general public.

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