

## [P-115/ID-1-9] Detection of Rapid Transients in Raw VLBI Data Stream

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We have recently developed a new method to detect transient signals of very short time scale ( $>1$  millisecond) in radio wavelength out of Very Long Baseline Interferometer (VLBI) raw data. Our team plans to implement this algorithm to Korea@Home platform, a distributed computing platform by Korea Institute of Science and Technology Information (KISTI) to analyze a huge amount of VLBI raw data. Our method will be useful, in particular, for the investigation of transient signals from Extra-Terrestrial Intelligences (ETIs), while other transients in the nature will be also targets by changing the settings of search range of time scale. For this International Year of Astronomy this platform will contribute to pull the interest of pupils and students at astronomy.

About search for ETI signals, ETIs would select signals which get rarely produced in natural processes if ETIs want to appeal their existence to other civilizations. Possible candidates of such signal are transient events of extremely short time scale. Our approach for such signals is to use the raw data recorded in VLBI stations, extracting light curves directly. We report the detail of the detection algorithm and the result of our simulations with artificial data sets mimicking 22GHz VLBI raw data.