

[1009] East Asian GRB Follow-up Network (EAFON)

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We have established a Japan-Taiwan-China collaboration named East Asian GRB Follow-up Network (EAFON; <http://cosmic.riken.jp/grb/eafon/>) on GRB study in the East Asian region since 2003. This serves as valuable additions to the world-wide optical and infrared follow-up network and then enables continuous, multi-band monitoring of GRBs from early timing, otherwise the East Asia region is otherwise under developed in this field. The imaging and spectroscopic follow-up have been carrying out by Lulin (Taiwan), Xinglong, Beijing (China), Kiso (Japan) and WIDGET (Japan). Utilizing EAFON we have observed 55 GRB optical afterglows and detected 15 early optical afterglow behavior including two short GRBs in multi-bands. From these observation, we have obtained three main results; (1) Short GRBs afterglow behavior (2) two separate components in early optical afterglow of Long GRBs (3) high redshift GRBs candidates.

[1010] High precision measurements of stellar radial velocities with I₂ cell at the Bonhyunsan Echelle Spectrograph

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We have developed a computer code for high-precision measurements of stellar radial velocity variations in high-resolution spectra obtained with iodine cells at the Bonhyunsan echelle spectrograph (BOES). We report the first results. An accuracy of the measurements depends on quality of spectral material and spectral types of stars under investigations. At the present moment we have achieved a precision of about 7 m/s. Ways of improvements of these results are considered.