

# Recent optical activity of flaring blazars

ATel #4437; [R. Bachev, S. Peneva \(IA-NAO, BAS, Bulgaria\)](#)

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Subjects: Optical, Blazar

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We report some recent results of optical (R-band) monitoring of blazars in high brightness state, observed with the 60cm Belogradchik telescope and the 50/70cm Rozhen Schmidt telescope, Bulgaria.

CTA 102. This object is indeed in a very high brightness state, as reported in ATel #[4397](#). We started our observations on September 21.78 (UT) when the object increased its brightness from  $R=15.02$  to  $R=14.70$  (typical errors of 0.02 mag.) within the next 3.2 hours. The following night CTA 102 was even brighter, showing also similar intranight variability, i.e. from  $R=13.98$  to  $R=13.72$  between Sept. 22.79 and 22.95. Occasionally, rapid brightness changes of about 0.2 mag/hour were detected. On Sept. 23.90 CTA 102 also remained quite bright with  $R=13.88$ .

S5 0716+714. This is another active blazar, being currently in a high state, close to its historical maximum. The object showed  $R=12.27$  on Sept. 23.14 and  $R=12.08$  on Sept. 24.06.

4C 38.41. Recently it was reported about enhanced gamma-ray (ATel #[4389](#)) and NIR emission (ATel #[4400](#)) from this object. Our observations indicate also rather high optical state. The object showed  $R=15.88$  on Sept. 22.80 and  $R=15.49$  on Sept. 23.78. Typical low-state magnitudes of 4C 38.41 are around 17.5.

Further multi-wavelength observations of these objects are encouraged.