

Radio and gamma-ray variability of S5 0716+714

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We present results of single-dish monitoring observation in flux density of BL Lac object S5 0716+714 at broad radio frequencies from 8 to 230 GHz using the data of UMRAO (8 GHz), OVRO (15 GHz), KVN (22 and 43 GHz), CARMA (95 GHz), and SMA (230 GHz). The single-dish observations were conducted over 4 years from 2010 November to 2014 June with a high cadence of several days. In this observing period, we detected significant flux variability at all frequencies and identified six local peaks. We tested shock-in-jet model and measured magnetic field from the evolution of spectral parameters for individual peaks. Furthermore, we discuss the correlation between gamma-ray and radio emission.