Outside GCN IAUCs ATel on Twitter and Facebook ATELstream ATel Community Site	The Astronomer's Telegram Post Search Policies Credential Feeds Email	This space conference
	25 Sep 2020; 12:56 UT	

[Previous Next ADS]] JVLA C-band observation on AT2019wey	
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Subjects: Radio, AGN, Binary, Blazar, Transient	
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On Dec. 07, 2019, an optical transient AT2019wey was discovered by the	
ATLAS group. Based on the optical and X-ray properties, this transient was	
suggested as a BL Lac in active state (Alei $\#135/1$, $\#135/6$). Considering	
1-h IVLA DDT observation (Project code: 20A-479) on May 27, 2020, at C band	×
spanning from 4 to 8 GHz and in C configuration, in order to search for its	
radio counterpart. An unresolved source is significantly detected at the optical	j.
position of this transient, and the flux densities at 5, 6 and 7 GHz are 197	S J

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+/-20 uJy, 220 +/-22 uJy and 234 +/-23 uJy, respectively. These values are consistent within errors, suggesting a flat radio spectrum. The flux densities at **13571** s 3(227 + -24 u) and 10 GHz (86 + -12 u), measured on Aug. 02, 2020, indicate however a steep spectrum (ATel #13921). In the X-ray binary scenario newly proposed by Yao et al. (ATel #13932), the change of the radio spectrum may be associated with an evolution in the compactness of the jet.

Currently, the optical (http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia20aua) and the X-ray flux densities (ATel #13948) appear going higher, and the multi-band observations on this source are encouraged. We have applied for an European VLBI Network short observation on this source, which will be carried out in the coming weeks. We thank the NRAO for accepting our DDT proposal and quickly scheduling the experiment.

AT 2019wey | Transient Name Server

[Telegram Index]

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