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## **Revisiting the LS I+61303 environments**

We present a reanalysis of archive radio interferometric data for the gamma-ray binary LS I +61303. Our aim is to expand our previous searches for associated extended emission at the few arc-second/arc-minute level. The existence of such large scale features is expected no matter the physical scenario that is really at work in this system: pulsar wind interaction or microquasar. The main motivation to revisit the LS I +61303 extended emission issue is the present availability of highly sensitive archive data from the Expanded Very Large Array (EVLA). These observations were originally conducted for different purposes, but with a much better sensitivity than the historic VLA with narrow bandwidth. Our preliminary analysis, after combining different EVLA data sets into a single map, confirms that extended emission is clearly detected in the target vicinity. However, proof of a physical connection remains to be obtained.

## Contribution

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