

NEBULAR SPECTROSCOPY OF THE ENIGMATIC SANDULEAK'S STAR IN THE LMC

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Sanduleak's star, a puzzling source in the Large Magellanic Cloud, has been tentatively classified as a symbiotic star based on its high-excitation nebular spectrum, but its unusual properties have left open the possibility that it is instead related to massive star evolution. The object, which was discovered in 1977, came back into the spotlight when we discovered that it powers a giant, highly-collimated bipolar jet extending over almost 15 pc, making it one of the largest stellar jets ever discovered and the first clearly resolved beyond the Milky Way. In this contribution we present our follow-up observations of Sanduleak's star obtained over the last few years. In particular we will present Magellan Telescope deep longslit spectroscopy of the jet and inner nebula. While the question of the real nature of the Sanduleak's star remains open, our findings underscore the importance of continued investigation into this intriguing object.