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ON THE ORIGIN OF THE NORTH POLAR SPUR

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In this poster, we reanalyze the origin of the North Polar Spur (NPS) in order to determine whether it is very old local supernova remnant (SNR) or local superbubble created by a few subsequent supernova explosions from the same stellar association, or a distant object of immense extension, on the Galactic scale, associated with a giant explosion from the Galactic center. We use recent radio-spectral data, presented in Iwashita, Kataoka and Sofue (2023) and the distance and size estimate of NPS from Das et al. (2020). Magnetic field strength obtained from the equipartition calculation, the shape of radio-spectra and position of NPS on the radio-surface brightness – diameter relation suggest that this object could be a remnant expanding in a low-density bubble or a superbubble as a result of multiple explosions.