LINE-OF-SIGHT GEOMETRY AND PLASMA SCATTERING TOWARD NGC 6334B

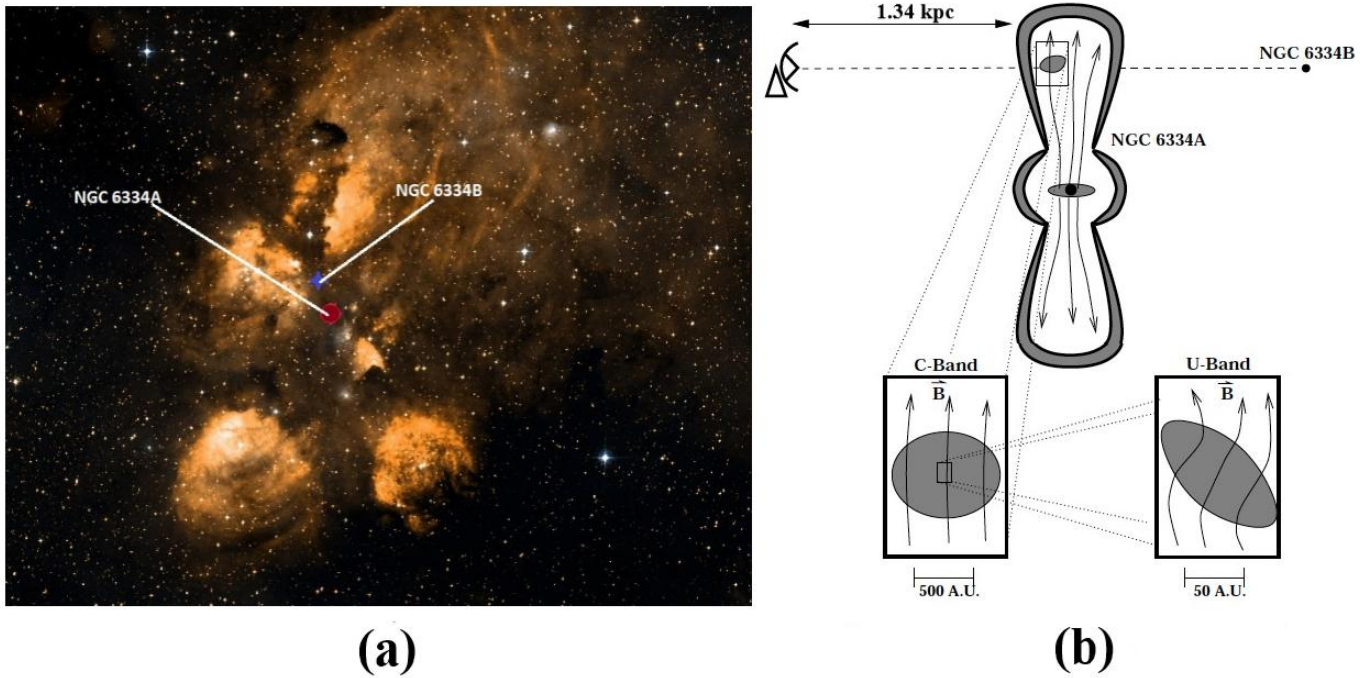

Figure 1: Geometry of plasma scattering toward NGC 6334B**.**
(a) Optical image of the NGC 6334 massive star-forming complex from the Digitized Sky Survey (DSS). Blue cross marks the position of the extragalactic source NGC 6334B and red region marks the position of the HII region NGC 6334A. **(b)** Schematic representation of the line of sight toward NGC 6334B. Radio emission from the background source crosses the ionized gas associated with NGC 6334A before reaching the observer. Irregularities in the electron density scatter the radio waves, producing an apparent angular broadening that becomes stronger at longer wavelengths. Adapted from Trotter et al. **[1].**

Reference: **[1]** Trotter, A. S., Moran, J. M., and Rodríguez, L. F., "Anisotropic Radio Scattering of NGC 6334B", The Astrophysical Journal, vol. 493, no. 2, IOP, pp. 666–679, 1998.