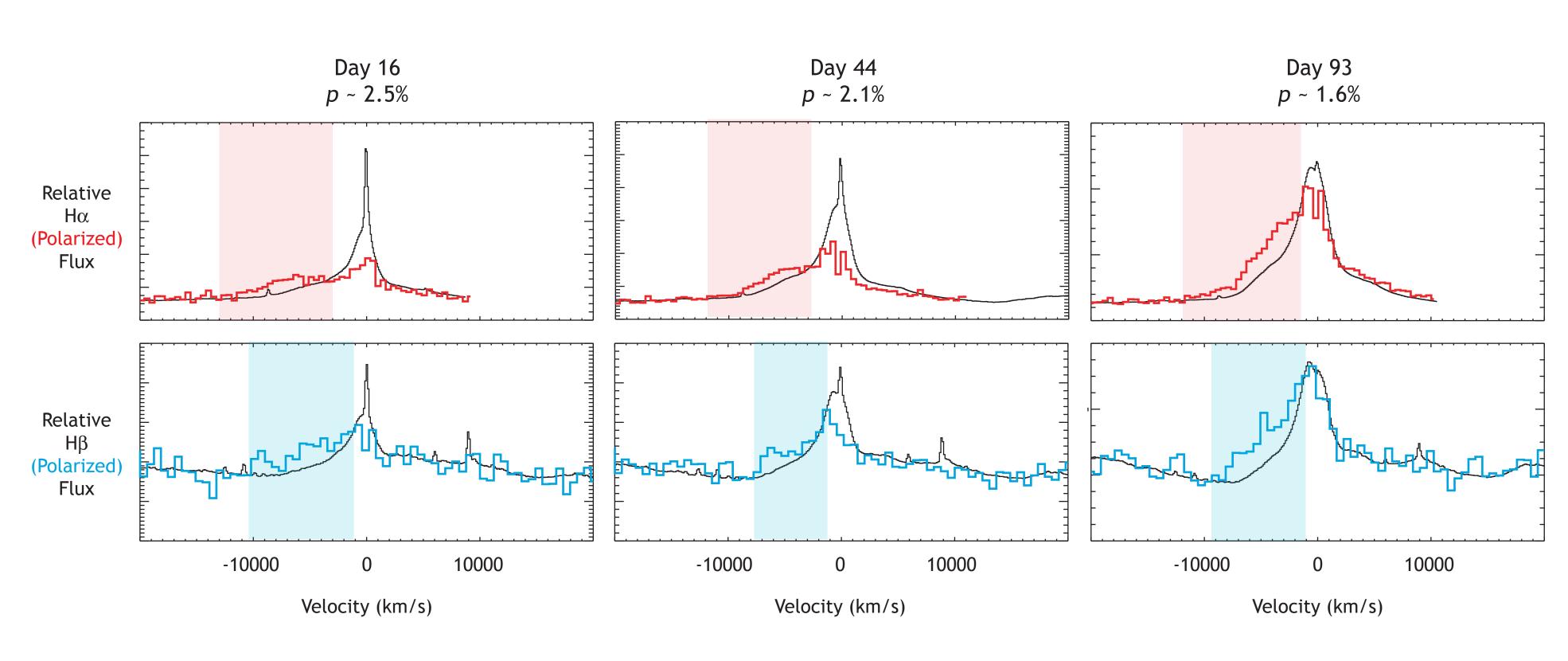
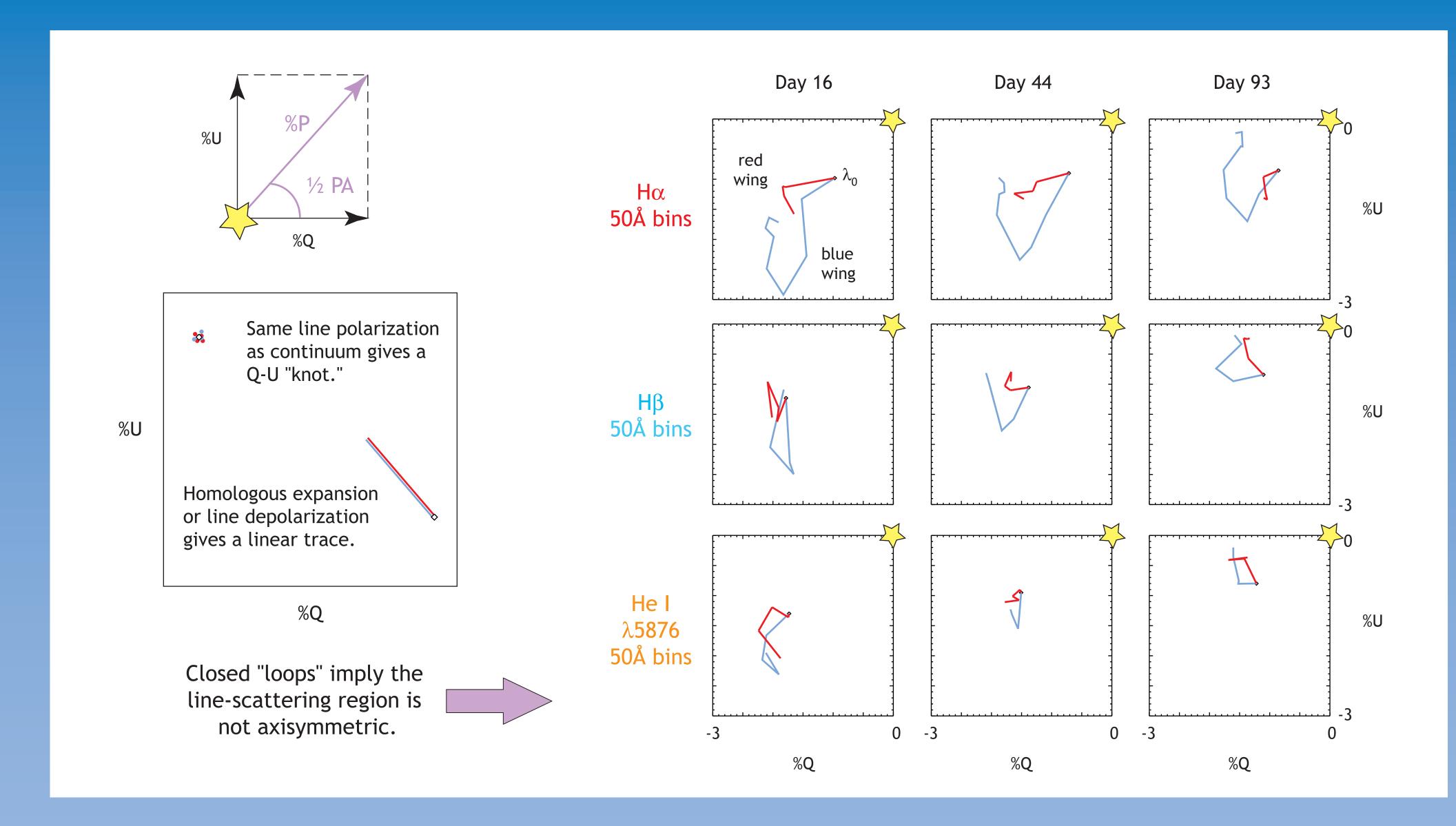
# The Dual-Axis Circumstellar Environment of SN 1997eg Jennifer L. Hoffman, UC Berkeley

## 1. Blue Balmer emission line wings in scattered light but not direct light



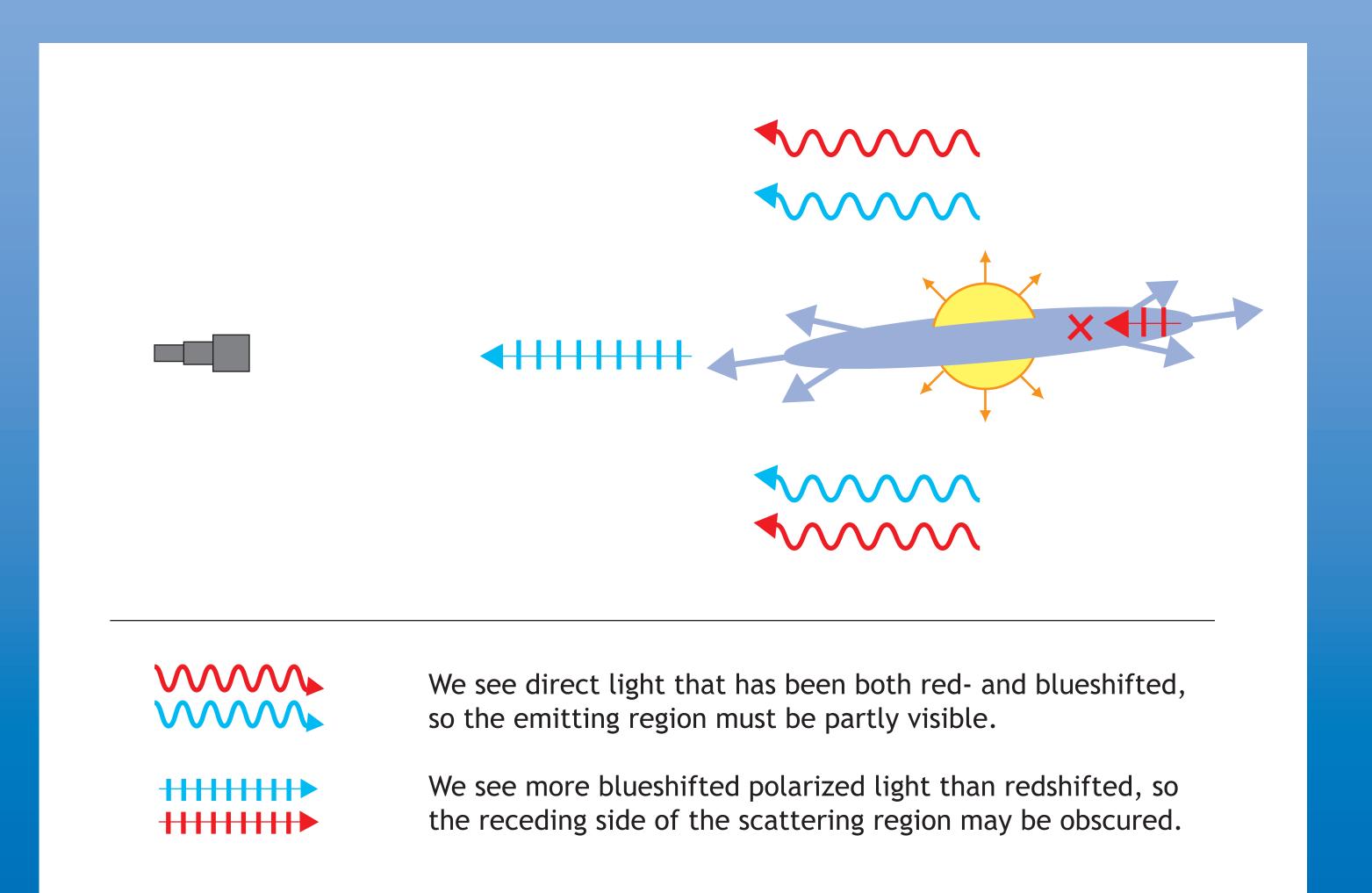
The polarized flux spectrum ( $\% p \times F$ , colored lines) is the spectrum of the scattered light in the system. It is a small percentage of the total flux, but here the line profiles are overlaid for comparison of their widths.

# 2. Q-U loops instead of straight lines across Balmer and He I profiles

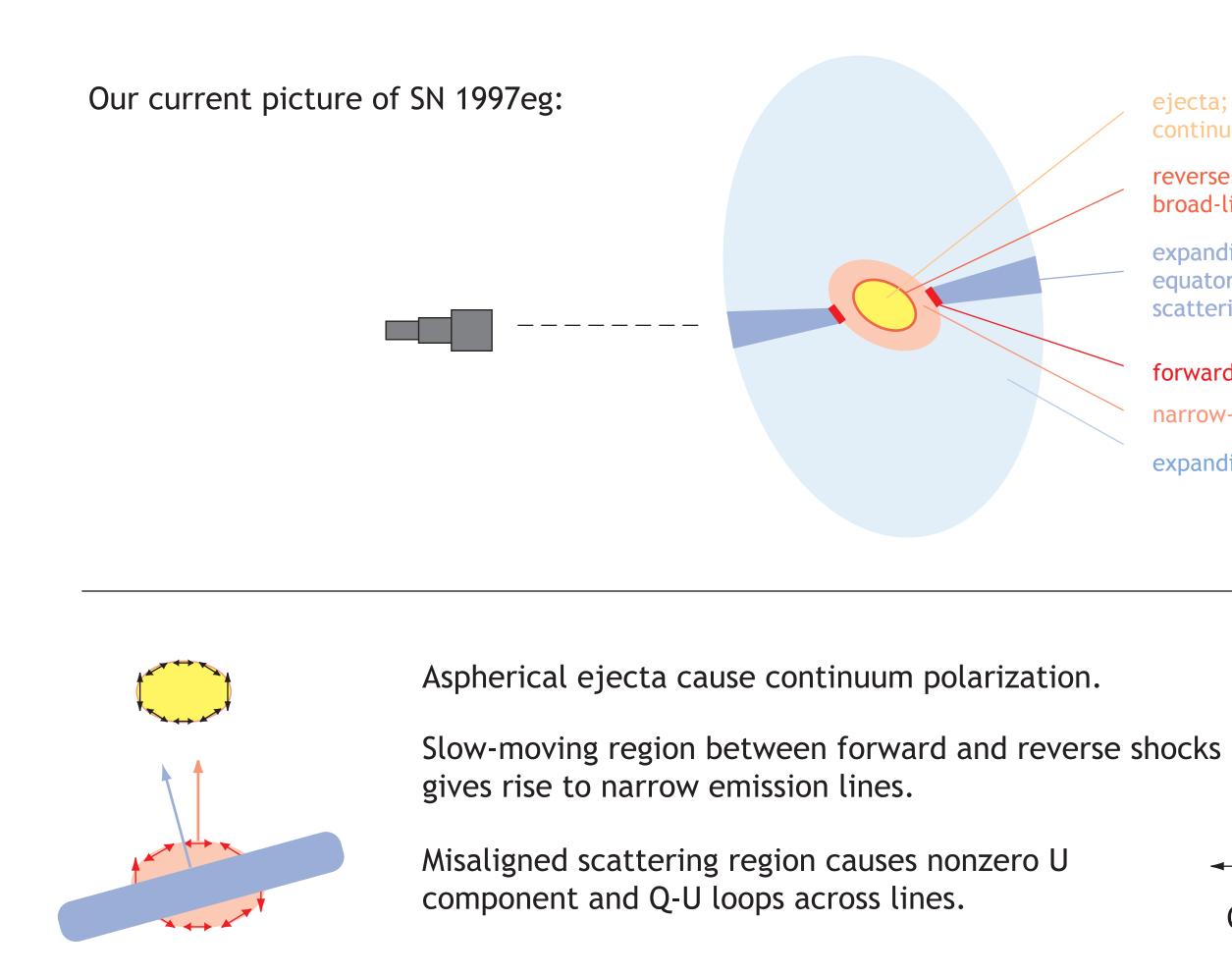


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#### scattering region obscures its own receding side.



# emission and scattering regions are aspherical and misaligned.



### For more details, see http://grammai.org/jhoffman/sne.

ejecta; continuum emission

reverse shock; broad-line emission

expanding dense equatorial scattering region

forward shock narrow-line emission expanding wind

 $\downarrow$  X Q U