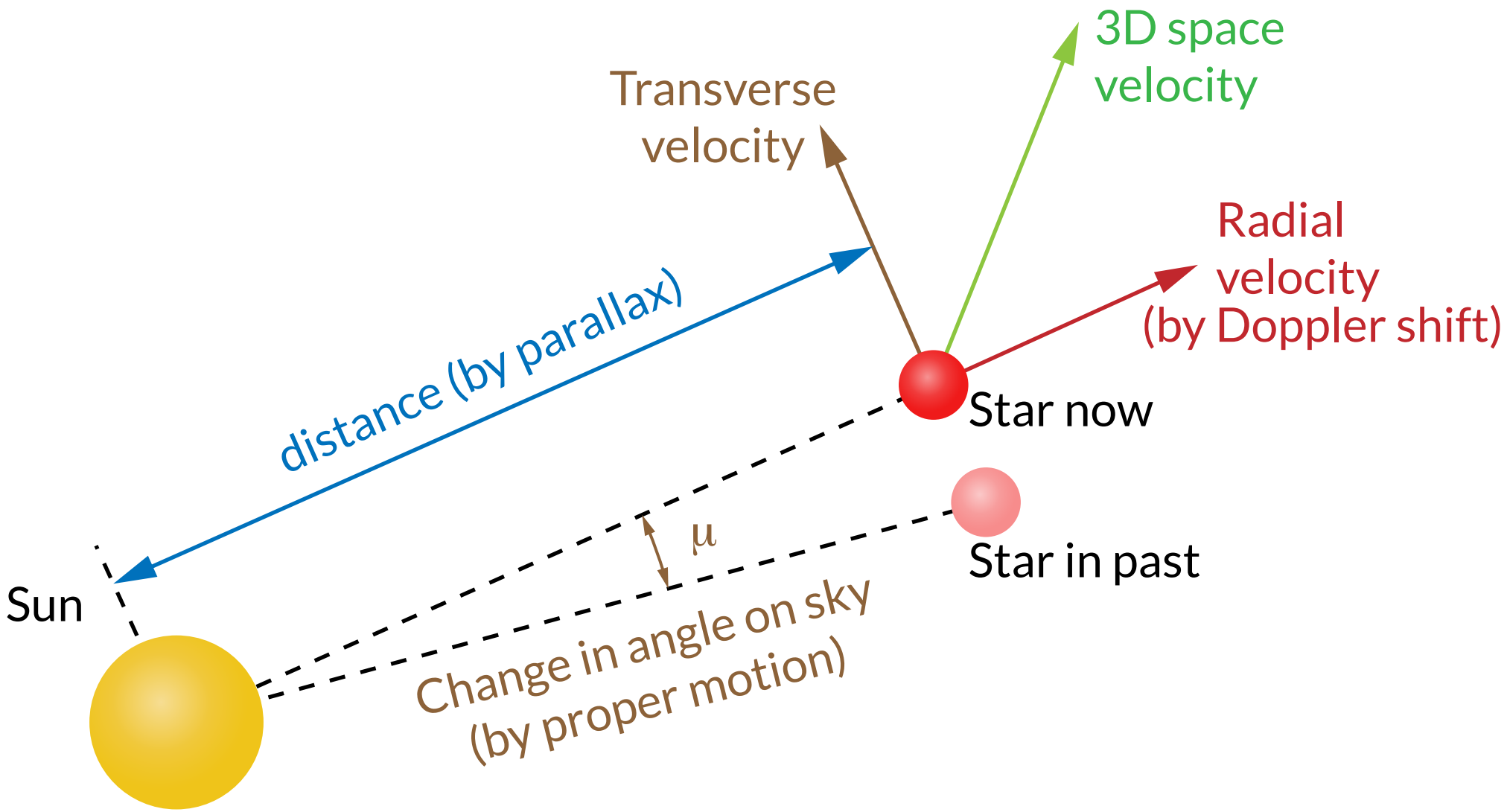
3D space velocity
Transverse velocity
Radial velocity (by Doppler shift)
distance (by parallax)
Star now
Star in past
μ
Sun
Change in angle on sky (by proper motion)