Abstract
We have performed interferometric observations of the $^{12}$CO(1–0) emission in a sample of 27 objects spanning different evolutionary stages from the late Asymptotic Giant Branch (late-AGB), through the pre-planetary nebula (pPN) phase, and to the Planetary Nebula (PN) stage. Here, we present the data and main nebular properties derived (Sánchez Contreras & Sahai, in prep). Observations were performed with the millimeter wavelength array of the Owens Valley Radio Observatory (OVRO). The angular resolution obtained in our survey ranges between 2.3" and 10.7". The $^{13}$CO(1–0) and C$^{18}$O(1–0) transitions as well as the 2.6mm continuum emission have also been observed in several objects. Our data have been used to derive accurate target coordinates, systemic velocities and to characterize the envelope morphology and kinematics.