a kinematic distance must be assigned.

The positions and radial velocities of clumps are prov
determine whether an infrared source is present at the
velocities of molecular clumps and cloud fragments ca
known (e.g. Clemens 1985, ApJ, 295, 422).

While this gives a unique determination of the object's
valued. This is a consequence of the geometry of the
ambiguity.

We can solve the distance ambiguity by using additio
Galactic HI survey (BUAO) provides the highest angula

In the high resolution BUAO spectra, HI can be seen i
kinematic distance absorbs 21 cm radiation from a wa
toward a bright continuum source (e.g. HI and H_2CO),
be observable on a much larger scale since atomic hyd
sufficient amount of cold residual HI within the molecu

A striking example of an extended nearby cloud is show
(Fig. 5) show a deep HI self-absorption dip at the radial
components along the same line of sight are visible. Th
the optical image. Only the presence (or absence) of HI
kinematic distance.

Based on the initial survey results for the first two squ
the GRS. A great number of these objects will be asso
estimated.

The GRS thus not only constitutes a unique database fo
the 5 kpc Ring, it also provides the key to establish for
the Inner Milky Way.