

# Sample definition

- We have been analyzing unidentified 3FGL source located within  $<10$  degrees from the Galactic plane. However, since with the recent release of 4FGL positions and significance of Galactic 3FGL source have changed substantially (see below). Therefore, we focus here only on those LAT sources whose 3FGL and 4FGL positions fall within  $8'$  (for ACIS-I) and  $4'$  (for ACIS-S) from the CXO pointing (which in many cases was not even intended to study the LAT source).
- 4FGL catalog has several “kinds” of “unidentified” sources. Some sources are “associated” with known sources but the associations are uncertain. Below we only consider sources that are listed as in 4FGL catalog without any class or with class “unknown”. Note that some of these sources turn out to have credible associations that are not listed in the released 4FGL catalog (see an example below).