Define a sample of Ultra NED-1D csv file Luminous of X-ray source Galaxies with reliable distances candidates - Names (e.g. NGC 253) - D (Mpc) - RA, DEC Coords (sexigesimal) -add columns with coordinates in decimal degrees HyperLeda catalogue - remove multiple entries leaving one row per galaxy Compiled galaxy catalogue - Galaxy diameters logD25 NED-1D_individual_galaxies (1212) - send to Aladin - send to Aladin Cross-match in Aladin using decimal coordinates with 5" maximum error to combine info from NED and 2XMMi catalogue of X-HyperLeda catalogues ray sources (262902) - X-ray fluxes (Flux8) - X-ray source positions X_NED_HyperLeda (962) - send to topcat - send to topcat - add a column with the galaxy radius in arcmin: pow(10.,logD25)*0.1/2 Cross-match in topcat using the galaxy radii and X-ray position errors to find X-ray sources inside the galaxy diameters xray_sources_inside_galaxies (8616) Calculate X-ray luminosity using X-ray flux from XMM and distance from NED-1D $Lx = 4*\pi*D^2*fx$ $= 50.078 + 2*log_{10}(D(Mpc)) + log_{10}(Flux8)$ Select sources with $Lx > 10^{39}$ erg/s to identify bright X-ray sources inside galaxies: ULX candidates ULX_candidates (1740)