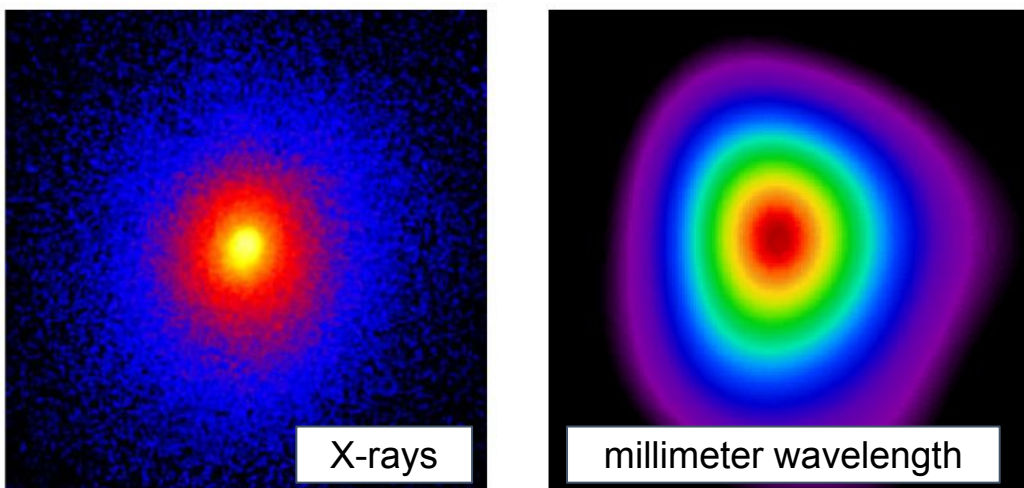


Topic XY: Comparing the cluster selection in X-ray and millimeter wavelength



cluster Abell 1835 at redshift $z = 0.25$, viewed – from left to right – in X-ray emission, optical light, and sub-millimeter wavelength Allen+(2011, Fig. 7)

Galaxy Clusters are visible via the **hot ($>1e7$ K) plasma** they contain – both in emission in **X-rays**, and in absorption in **millimeter wavelength**.

In this project you will use **Bayesian population modelling**, a generative AI algorithm used for inference

Requirements: some python experience, experience with and (extragalactic) astrophysics and statistical inference welcome

