



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG



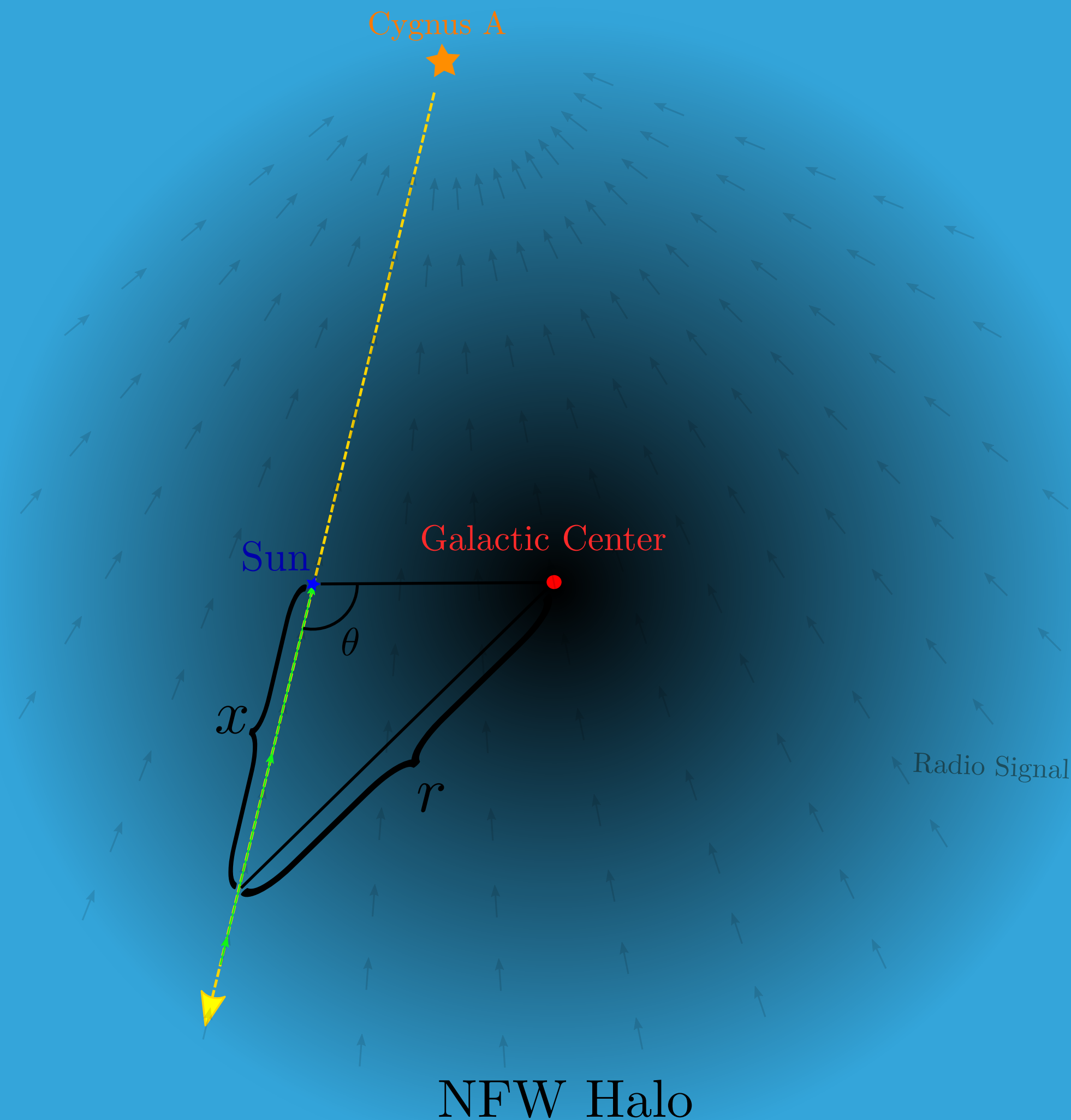
CLUSTER OF EXCELLENCE
QUANTUM UNIVERSE

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AXION GEGENSCHEIN: DARK COUNTERIMAGES OF BRIGHT RADIO SOURCES

AXION GEGENSCHN: A NOVEL ASTROPHYSICAL PROBE

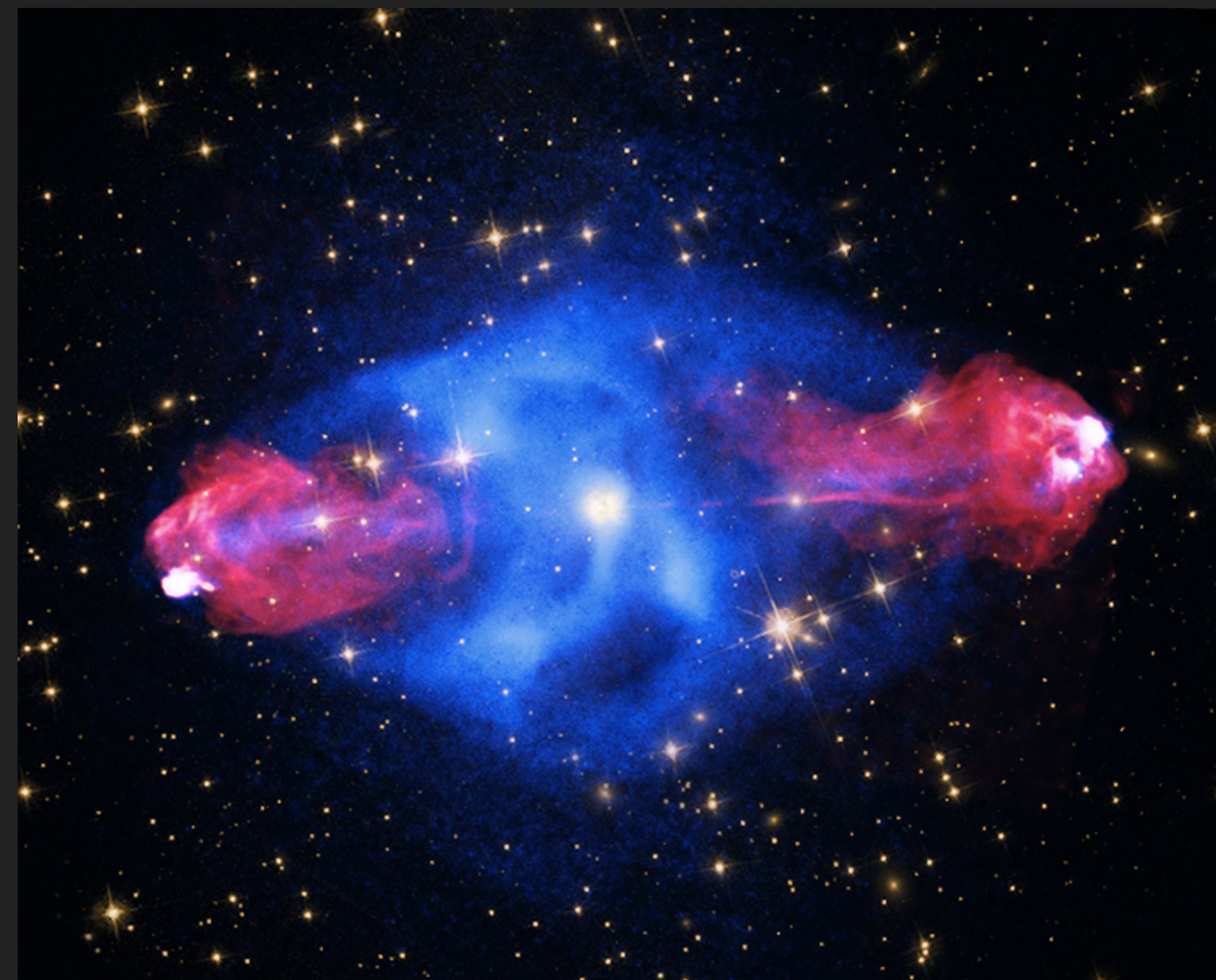


For every astrophysical source, a "counterimage" is created in the opposite sky direction

AXION GEGENSCHN

A new way of peering through the Milky Way's dark matter halo

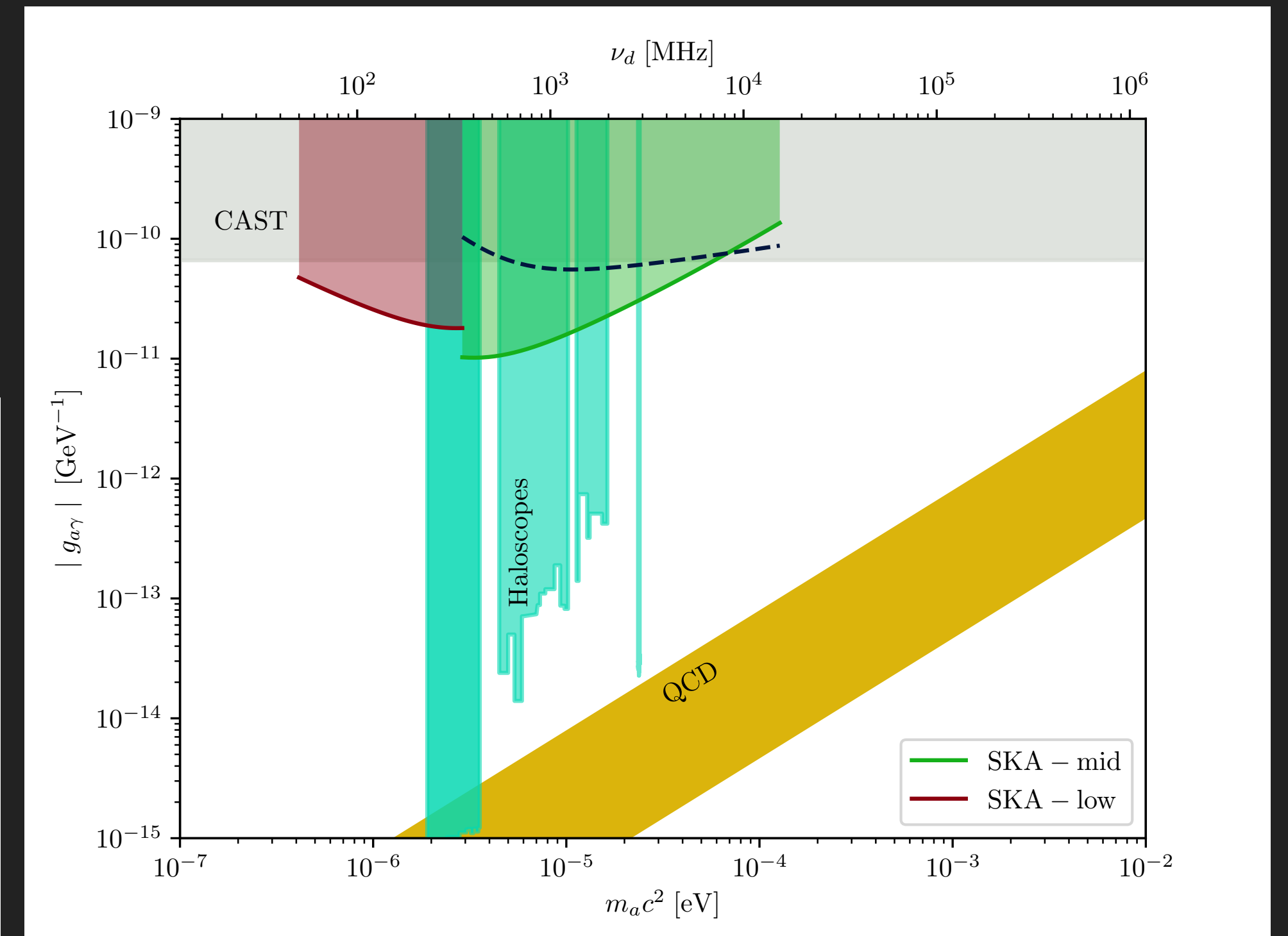
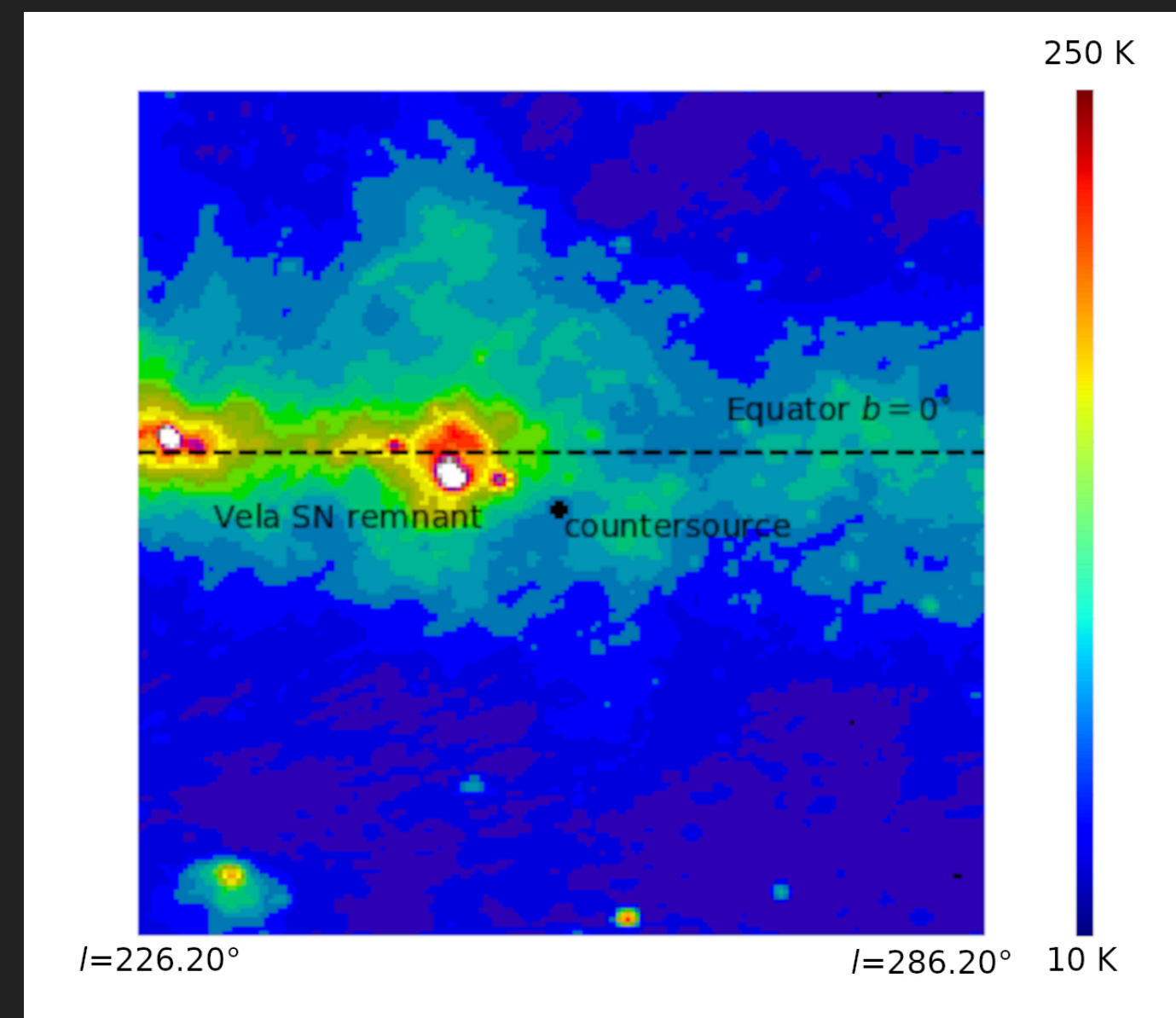
COUNTERSOURCE FEATURES



Cygnus A

courtesy: ESA

- ▶ Source and counterimage dimension ~ 2 arcmin
- ▶ Located opposite to Cygnus A
 $\ell = 256.20^\circ, b = -5.75^\circ$



Sensitivity of the axion gegenschein scheme is 100x that of observing dSphs for stimulated axion decay