



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalsivam Kamarajar"

Dyson sphere: an energy devourer

Published On: 24-07-2024

Context:

The Dyson sphere is named after theoretical physicist [Freeman Dyson \(1923-2020\)](#), who hypothesised its existence. He said that technologically advanced civilisations will have such a tremendous demand for energy that they will have to harness the entire radiative power of a star, using [solar energy collectors](#) arranged in a sphere around the orb.

Dyson also figured that these spheres would emit excess heat from the star as infrared radiation

Recent development:

In May this year, scientists set out to look specifically for the signature of Dyson spheres.

They scanned 5 million stars within 1,000 light years of the earth. After analysing this data, they found seven stars whose infrared radiation they could not explain. There is no conclusive evidence still