

2. Rado telescopes are astronomical instruments used to detect reached waves emethed by substituted objects like starts, galaxies, black holes, pulsars etc. They have a large parabolic desh which collects/detects the waves. These waves are then converted to electrical signals using a waves are then converted to electrical signals using a receiver. Then It the date its processed using a computer receiver. Then It the date its processed using a computer. Other components are amplifiers, converters etc.

Single desh hadlo telescopes have one large antenna desh which collects data, while kadlo Interferometers (troug of single readlo telescopes) collect data using antennas of single readlo telescopes) collect data using antennas which are spread across thousands of km. The data is which are spread across thousands of km. The data is combined together to get the output.

Compravelston with Optical tellscopes.

ii) Detects 21 cm spectocal line of HI which can use to

111) Detect black holes

map specal worns of Milky way

8 Optical 1) Detects visible leght 1) Detects radio waves @ Wavelength is 400 nm -700 nm 2) wavelength stronges from M to 3) Blocked view due to clouds, 6) Can pass through clouds, light pollution, dust. dust. (4) Best works only dwelng night. (G) words 24/7. (5) Lens / Mirvoor System used to 3 Parabolic antenna Collects magnefy. Hadlo wares. (6) Letos Can see Superioral, @ Detects CHB, Pulsars, Phasars eclipses, galaxies (7) Applications -(7) Applications i) Vilew nebalue, planets, sun i) Gralasey foremation

ii) Detect exceptanets

1117 Study galoxy evolution

iv) spectocoscopy to find composition

3. Event hoodson or the boundary of no section is a mathematical boundary beyond which even light cannot escape. Due to the emmerce granktational pull, no light, no information, nothing can escape and it will be fulled trouvails "Singularity". Singularity is defined as a point of infinite density at the centre of the blackhole. The event horizon of a non-sectating, uncharged black hole. (Schwarbchold) is given by the Schwarschild's readilies (Es) (Schwarbchold) is given by the Schwarschild's readilies (Es)

If an external person is observing a person at the event horizon, the time seems to be horizon or near to the event horizon, the time seems to be very slowed due to gravitational time delation. There well be extreme red-shift of light.