

November 11, 2020
MSE 2101 topics

- The Encephalization Quotient (EQ)
 - EQ of humans compared to chimps and dolphins?
 - EQs evolve!
- 2% in weight, 25% in metabolism!
- Does intelligence imply the spawning of science/technology?
 - would dolphins make good astronomers?
 - how about wolves? Elephants? Eagles?
- Search for Extra-Terrestrial Intelligence (SETI)
 - First attempts by Tesla and Marconi
 - Cocconi and Morrison's calculation of radio power
 - Band vs. bandwidth of radio emissions
 - How would *you* draw attention of the aliens?
 - Jocelyn Bell's Little Green Men
 - The special significance of 1420 MHz (21 cm)
 - Green Bank, WV: eps Eridani, tau Ceti
 - 1992: start of the search
 - 1993: end of the search
 - privatization of SETI
- The types of signals we may hope to detect
- Recognizing a signal if we found one
- Encoding and sending such a signal?