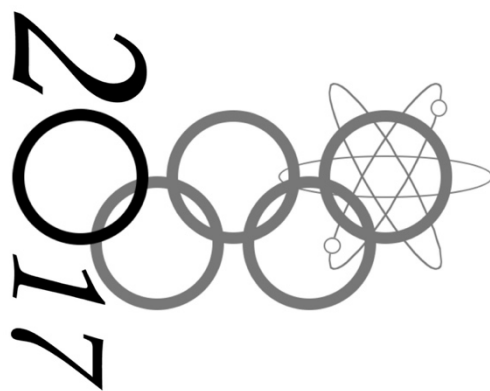


Team

Rank



## Fermi Questions

- |     |   |  |
|-----|---|--|
| 1.  | How many people were in The Beatles?  | <input type="text" value="1"/>                 |
| 2.  | What is the gravitational force between an adjacent neutron and proton in a nucleus?                            | <input type="text" value="-34"/> N             |
| 3.  | What is the energy of a photon of violet light?   | <input type="text" value="-18"/> J             |
| 4.  | How much energy is required to raise the temperature of the water in a full Olympic-size swimming pool by 10 K? | <input type="text" value="11"/> J              |
| 5.  | What is the average kinetic energy of an air molecule at room temperature?                                      | <input type="text" value="-20"/> J             |
| 6.  | What is the area enclosed by the orbit of Saturn around the sun?  | <input type="text" value="25"/> m <sup>2</sup> |
| 7.  | What is the momentum of a large raindrop just before landing?   | <input type="text" value="-7"/> kgm/           |
| 8.  | What is the wavelength of a proton accelerated to maximum energy by the LHC?                                    | <input type="text" value="-19"/> m             |
| 9.  | What is the pressure at the bottom of the deepest part of the ocean?  | <input type="text" value="8"/> Pa              |
| 10. | In the first event detected by LIGO, what was the combined mass of the black holes before their merger?         | <input type="text" value="32"/> kg             |
| 11. | What is the average temperature gradient from the earth's core to its surface?                                  | <input type="text" value="-3"/> K/m            |
| 12. | What is the electric field strength at the surface of a proton?   | <input type="text" value="21"/> N/C            |
| 13. | What is the resistance at room temperature of a cube of copper of side 1m?                                      | <input type="text" value="-8"/> Ω              |
| 14. | What is the combined capacity of all the LPO mugs given away since the first LPO?                               | <input type="text" value="0"/> m <sup>3</sup>  |