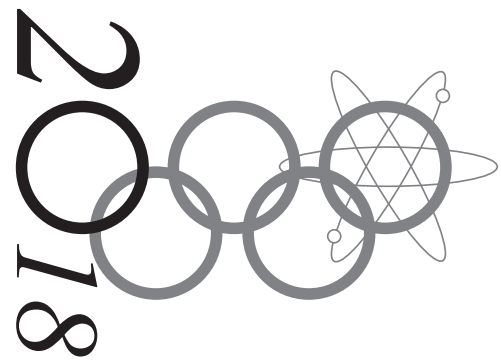


Team

Rank



Fermi Questions

- | | | | |
|-----|--|----------------------------------|---------------------|
| 1. | How many people were in The Beatles? | <input type="text" value="1"/> | |
| 2. | What is the time averaged electrical current of a single proton circulating around the LHC? | <input type="text" value="-15"/> | A |
| 3. | What is the area enclosed by the orbit of mercury around the sun? | <input type="text" value="22"/> | m ² |
| 4. | What is the volume of a buckminsterfullerene (aka 'buckyball') molecule? | <input type="text" value="-26"/> | m ³ |
| 5. | What length of Al wire of 27 mm radius is required to make a 27 Ω resistor? | <input type="text" value="6"/> | m |
| 6. | What is the wavelength of a gamma ray emitted following the annihilation of a positron with an electron? | <input type="text" value="-12"/> | m |
| 7. | At what rate do toe nails grow? | <input type="text" value="-9"/> | m/s |
| 8. | What is the gravitational force between 2 neutron stars at the point just before they merge? (Assume Newton's Law is valid.) | <input type="text" value="42"/> | N |
| 9. | How many protons are there in an LPO mug full of your favourite drink? | <input type="text" value="26"/> | |
| 10. | What is the average temperature gradient from the centre of the sun to its surface? | <input type="text" value="-2"/> | K/m |
| 11. | How many layers of standard Al kitchen foil are required to make a thick enough stack to reach the moon? | <input type="text" value="13"/> | |
| 12. | What is the momentum of a fully laden Airbus A380 at cruising speed? | <input type="text" value="8"/> | kgm/s |
| 13. | What is the angular momentum of the moon around the earth? | <input type="text" value="34"/> | kgm ² /s |
| 14. | What is the kinetic energy of a sky diver in free fall? | <input type="text" value="5"/> | J |