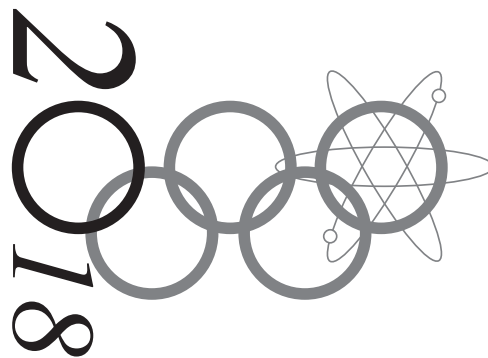


Team

Rank



Fermi Questions

1. How many people were in The Beatles?
2. What is the time averaged electrical current of a single proton circulating around the LHC? A
3. What is the area enclosed by the orbit of mercury around the sun? m²
4. What is the volume of a buckminsterfullerene (aka 'buckyball') molecule? m³
5. What length of Al wire of 27 mm radius is required to make a 27 Ω resistor? m
6. What is the wavelength of a gamma ray emitted following the annihilation of a positron with an electron? m
7. At what rate do toe nails grow? 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.) N
9. How many protons are there in an LPO mug full of your favourite drink?
10. What is the average temperature gradient from the centre of the sun to its surface? K/m
11. How many layers of standard Al kitchen foil are required to make a thick enough stack to reach the moon?
12. What is the momentum of a fully laden Airbus A380 at cruising speed? kgm/s
13. What is the angular momentum of the moon around the earth? kgm²/s
14. What is the kinetic energy of a sky diver in free fall? J