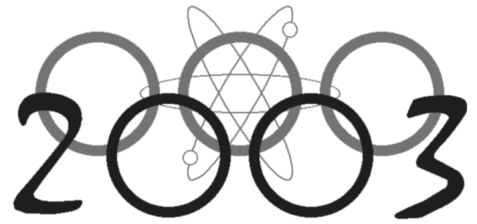


LIVERPOOL PHYSICS OLYMPICS



Team

Rank

Fermi Questions

- | | | | |
|----|---|---------------------------------|-------|
| 1 | In June next year Venus will transit (pass in front of) the Sun.
By how much does the Sun appear to dim during such a transit? | <input type="text" value="-1"/> | % |
| 2 | How many molecules are there in a rain drop? | <input type="text" value="21"/> | |
| 3 | Astatine is the rarest of the naturally occurring elements.
What is the total mass of astatine in the Earth's crust? | <input type="text" value="-2"/> | kg |
| 4 | How many people use the Internet? | <input type="text" value="9"/> | |
| 5 | The spacecraft Voyager 1 is the most remote man made object.
How far away is it from Earth? | <input type="text" value="13"/> | m |
| 6 | What is the resistance of the tungsten filament in a 100 watt
light bulb when it is switched on? | <input type="text" value="3"/> | ohms |
| 7 | The Leonid meteor shower occurs every year in November.
How fast does such a meteor enter the Earth's atmosphere? | <input type="text" value="5"/> | m/s |
| 8 | What is the top speed of the world's fastest diesel locomotive? | <input type="text" value="2"/> | m/s |
| 9 | How much personal computer time has been used in total in the
Search for Extraterrestrial Intelligence (SETI)? | <input type="text" value="6"/> | years |
| 10 | To how many decimal places has pi been calculated? | <input type="text" value="12"/> | |
| 11 | What is the deepest hole bored into the Earth's crust? | <input type="text" value="4"/> | m |
| 12 | How many bits can a standard DVD hold? | <input type="text" value="11"/> | |
| 13 | How many standard-sized postage stamps would it take to
completely cover the Earth? | <input type="text" value="18"/> | |
| 14 | How many people were in the Beatles? | <input type="text" value="1"/> | |