

10. **Due to its appearing constantly in popular science, you have become uncertain about what the uncertainty relation really means. How do you restore your certainty?**

Tick all that apply.

- ☐ You take out your phone and go the relevant wikipedia pages.
- ☐ You draw figures of related position and momentum eigenstates for some systems to see how it's all connected.
- ☐ You visit the nearest quantum mechanics guru and ask her/him to dispel your confusion.
- ☐ You fetch a pen and paper and derive the relation from first principles.

11. **Your friend who is a first-year physics student has trouble grasping the concept of quantum tunnelling. Which of the following alternatives would in your opinion be the best to help your friend understand this concept?**

Tick all that apply.

- ☐ Show figures of how the wave function looks like in different barrier systems.
- ☐ Suggest that s/he should do the math for examples where the phenomenon is especially clear, such as the double-well potential.
- ☐ Tell her/him to go to all lectures and listen closely.
- ☐ Recommend your favorite book on quantum mechanics.

12. **When you first started learning quantum mechanics, how did you approach the counterintuitivity of the subject?**

Tick all that apply.

- ☐ I read the definitions and explanations in the book and other literature/websites where they discussed these topics.
- ☐ I drew figures of wavefunctions in different potential systems, etc.
- ☐ I merely saw it as a mathematical tool which I used to solve the problems we were handed.
- ☐ I discussed the different concepts with my fellow students and/or teacher.

13. **A friend with a hobby interest in physics asks you to explain why the electrons in the double slit experiment cares if they are being observed or not. How do you explain this?**

Tick all that apply.

- ☐ Explain with words about interactions and collapse of the wavefunction etc.
- ☐ Find a video with Doctor Quantum, an animated physicist, and let him do the work.
- ☐ Try to find some classical analogue which can give some intuitive picture of the situation.
- ☐ Find some literature which explains this in a pedagogical way.