



UBC/TRIUMF 2009 Saturday Morning Lecture Series Quantum Physics and Chemistry

TRIUMF and UBC's Department of Physics and Astronomy are proud to present the 2008-2009 Saturday morning lecture series on Quantum Physics and Chemistry. We especially welcome guest speakers from the UBC Chemistry Department and from Simon Fraser University to this year's program. This lecture series will introduce the audience to the essential facts about the quantum world in a systematic and non-technical way, starting with the basics and progressing to more advanced material, at a level appropriate for high school students and members of the general public. It would be excellent enrichment for high school chemistry and physics students.

Lectures start at 10:00 am, in the TRIUMF auditorium. Free parking is available. Lectures are free, but please register as space might be limited. Go to <http://www.triumf.info/public/students/lectures.php> for registration, directions, and more information.

Oct 25, 2008

1. Prelude to Quantum Mechanics: Classical wave motion (Patrick Bruskiwich)
2. Sound waves and the physics of music (Chris Waltham)

Nov 29, 2008

1. Failures of classical physics and the birth of quantum physics (Mark van Raamsdonk)
2. Lasers and their applications (Kirk Madison)

Jan 17, 2009

1. Quantum physics II (Mark van Raamsdonk)
2. Quantum computers (Robert Rausendorf)

Feb 14, 2009

1. Quantum chemistry: molecules and chemical bonds (Roman Krems)
2. Quantum chemistry on a computer (Y. Alex Wang)

Mar 28, 2009

1. Quantum tunneling (Patrick Bruskiwich)
2. Quantum weirdness (Bill Unruh)

Apr 18, 2009

1. Quantum mechanics and materials science (Jeff Sonier)
2. Quantum mechanics and subatomic physics (Stanley Yen)

