



Johns Hopkins University

Department of Chemical & Biomolecular Engineering

Spring 2005 Seminar Series

Dr. Raji Heyrovska

"The Golden ratio, atomic and ionic radii and bond lengths"

Wednesday, April 27, 2005

The Golden ratio is a mathematical constant, observed in many of Nature's geometrical workings. This work shows that the Golden ratio is of importance right in the core of the atom, and that it divides the covalent bond lengths into cationic and anionic radii. Bond lengths of all halogen halides, many hydrides, all alkali halides and many others are shown to be sums of the radii of the component atoms or ions. For the latest work, see: R. Heyrovska, *Mol. Phys.*, Vol 103, pp 877 - 882, 2005.

Seminar will be held in Maryland Hall 220

For additional information contact Seminar Chair David Gracias at dgracias@jhu.edu