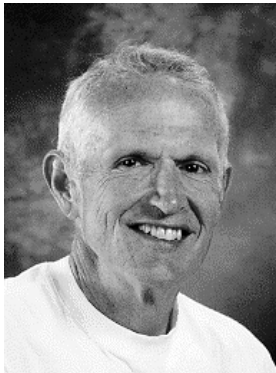


Physics Department Seminar

Friday February 13th, 2004

11:00am in PhSc 105

“How Big Is A Photon?”



Dr. Phil Gash
Professor
Department of Physics
CSU Chico



Abstract:

Some infrared, optical and x-ray photons result from electronic transitions from a higher excited atomic states to lower states. There is a lifetime associated with excited states, so the atom emits photons during that lifetime, hence the length of the photon should be equal to the photon speed time the lifetime. The

corresponding lengths of infrared, optical and x-ray photons due to electronic transitions in the alkali series will be presented.