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Going beyond the limits of traditional (ultrashort pulse) spectroscopy. Electrons and ions formed in molecular ionization can be detected with quantum yields close to one, leading to an extraordinarily sensitive characterization of molecular mass and electronic structure. Atomic, molecular, and optical physics (AMO) is the study of matter-matter and light-matter interactions; at the scale of one or a few atoms and energy scales around several electron volts. STRUCTURE and SPECTRA in BIOLUMINESCENCE John Lee 1 and Eugene S. Vysotski 1,2 1 Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA 30602 Basic UV-Vis Theory, Concepts and Applications Page 6 of 28 Figure 6 Vapor and solution spectra of Benzene General Chemical Origins When white light falls upon a sample, the light may be totally reflected, in which case the substance appears white or the light