## REMPI AND ZEKE STUDIES OF METHYLENE RADICAL.

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The 3p and 4d Rydberg states of  $CH_2$  have been reinvestigated by resonance enhanced multiphoton ionization (REMPI) spectroscopy. Methylene radical has been produced by photolysis of ketene. In addition, preliminary results of zero-kinetic-energy (ZEKE) photoelectron spectroscopy study of the ground state of  $CH_2^+$  will be presented.