TUNABLE-INFRARED LASER DESORPTION OF THIN FILMS IN A TIME-OF-FLIGHT MASS SPECTROMETER

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Tunable-infrared laser desorption in a time-of-flight mass spectrometer has been shown to be a viable technique for probing thin films. This technique has been used on a number of thin films, such as coronene and C_{60}. By tuning the infrared laser, resonance enhnacement could be seen from the change of signal intensity depending on the wavelength. The spectrum and possible mechanisms for this procedure will be discussed.