



07th June 2012 – 10:00 a.m.
 Building 49, Room 108

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Tuning photodissociation dynamics: Influence of π perturbing effects in thioanisoles

Photo-induced X-CH₃ bond fission in heteroaromatic systems has attracted much interest over the past years because of their potential importance in determining photo-stability. They also provide a test-bed for exploring interactions between an optically bright, bound $\pi\pi^*$ state and a dark $\pi\sigma^*$ state that is dissociative along the X-CH₃ coordinate.

In particular, *para*-substituted thioanisoles provide an excellent prototype system for the study of the influence that π perturbing groups have on the geometry in the ground and excited states, and subsequently on the photodissociation dynamics and product branching ratios.

