

日本物理学会九州支部
特別講演会

九州大学物理教室
第5回教室談話会

Above Threshold Dissociation in Molecular Ions

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日時： 7月14日(金) 4:00 pm
所： 九州大学 理学部 物理学科第一会議室(2154号室)

アブストラクト:

Above Threshold Dissociation (ATD) has been defined a few years after the discovery of the Above Threshold Ionisation (ATI) in Atoms and Molecules. However, due to the necessity of calculating excited state potential energy curves of spectroscopic accuracy and wave-packet propagation routine that were accurate up to laser pulse duration, not much accurate was done for some time. Our group has combined the recent developments in both the areas, and have been able to calculate accurate probabilities for ATD and compare them with the usual photodissociation probabilities for a set of alkali molecular ions. Recently, a novel result has been shown in this context: the possibility of observing Rabi oscillations between dissociating states by suitably choosing laser parameters and the right potential energy curves (Phys. Rev. Lett. 83, 2159 (1999)).

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講演会終了後、Rahman 教授と夕食会を予定しております。
参加御希望の方は中西まで御連絡下さい。

この講演会は 日本物理学会九州支部と九州大学大学院理学研究院物理学部門 共催です。