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FIZIKAI INTÉZET  
és az  
ATOMKI  
közös  
SZEMINÁRIUMA

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**Nonadiabatic Quantum Dynamics current methods  
and challenges**

címmel előadást tart

2019. november 22-én, pénteken  
14:00 órakor

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Debreceni Egyetem TTK Fizikai Intézet  
E7-es szemináriumi termében  
(4026 Debrecen, Bem tér 18/B., I.em E7)

Short abstract: This lecture will provide an overview of the general formalism and current methods devoted to theoretical and computational photochemistry, with special emphasis placed on nonadiabatic dynamics. Central concepts such as conical intersections, adiabatic or diabatic representations, and nonadiabatic couplings will be reviewed, as well as typical approaches for handling them within the framework of quantum dynamics simulations. A selection of recent, representative application cases will be presented, so as to illustrate current challenges in the field.