

Ron Naaman. Early and Recent Adventures

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From molecular beams research and van der Waals clusters to Coulomb imaging, molecular sensing and spin filtering, Ron's adventures through science have been diverse although uniformly imaginative. These and other directions in his previous research, many in collaboration with colleagues in this audience, will be discussed in other talks in this meeting; the present talk will focus on one of our favorite dreams. I will start by noting that several control scenarios of interest to this audience rely on the Stark effect and its dependence on the internal and external coordinates of molecules. Then I will focus specifically on the case of torsional coordinates, whose chemical applications range from charge transport and energy transfer to solar energy conversion and catalysis. Finally, I will combine Ron's chirality-induced spin-filtering approach with torsional control to suggest a potential electron spin switch.