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Abstract for an Invited Paper
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Laser spectroscopy probes of biomolecular conformation: Valley-to-valley searches for molecular-scale mountain passes¹

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This talk will describe recent studies of the spectroscopy and conformational isomerization dynamics of isolated gas-phase biomolecules with several flexible coordinates. These studies employ conformation-specific excitation and detection, taking advantage of the unique infrared and ultraviolet signatures of the individual conformations when cooled in a supersonic expansion. The examples given will include recent studies of the bichromophore 3-(4-hydroxyphenyl)-*N*-benzyl-propionamide (HNBPA) and of the ‘double-chain’ molecule *O*-(acetamidoethyl)-*N*-acetyltyramine (OANAT).

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