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Investigation of atomic properties using ion mobility spectrometry

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“Gas chromatographs and ion mobility spectrometers are as ubiquitous in industrial plants as they are in homeland security at airports for detecting dangerous gases, explosives and drugs. They are also used in fundamental research such as in analytics and biochemistry. Less well known is the application of ion mobility spectrometry in atomic physics.

The goal of this lecture is to introduce students to ion mobility spectrometry as a method for studying the atomic properties of the heaviest elements, with a view to its use as a tool for isobaric separation and laser spectroscopy of the transactinides.”

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