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(I) Ultracold chemistry with triplet molecules

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Cooling atomic gases to ultracold temperatures revolutionized the field of atomic physics, connecting with and impacting many other areas in physics. Recent advances in producing ultracold molecules suggest similarly dramatic discoveries are on the horizon. I will review the physics of ultracold molecules, including our work bringing a new class of molecules to ultracold temperatures. Chemistry at these temperatures has a very different character than at room temperature. I will describe two striking effects: Spin-dependent reactivity and molecular Feshbach resonances.

Primary author: Prof. JAMISON, Alan (University of Waterloo)

Presenter: Prof. JAMISON, Alan (University of Waterloo)

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