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Abstract for an Invited Paper for the DAMOP13 Meeting of the American Physical Society

Few-body dynamics of dipolar and finite-range systems¹ CHRIS GREENE, Physics Department Purdue University

The physics of few-body universality has progressed recently in leaps and bounds. This talk will discuss some of the exciting recent theoretical developments as well as some of the experimental headway in this realm. One topic to be covered is the universal physics of 3 dipolar fermions and 3 dipolar bosons and their relationship to Efimov physics. Other recent headway relates to the universality of the 3-body parameter, again in the Efimov domain, for both homonuclear and heteronuclear systems with short-range interactions. Collaborators in various aspects of the research to be discussed include Jose D'Incao, Brett Esry, Jia Wang, and Yujun Wang.

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