SEMINARIO

Departamentos de Física Teórica I y II Universidad Complutense de Madrid

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TITULO: Controlling charge exchange between atoms and ions

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM

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ABSTRACT

In recent years, we have seen rapid progress in the manipulation of ultracold ions, both atomic and molecular. Here, we review the theoretical framework used to compute elastic and charge exchange processes in ultracold atom-ion systems, and explore in details how alkaline-earth systems could be used to control these processes. We present recent results on Be_2^+, and discuss other systems, such as Mg_2^+ and Ca_2^+.