



Contribution ID: 123

Type: Talk

【402】 Fermi polarons in a strongly interacting Fermi-Bose mixture

Tuesday, 31 August 2021 13:45 (15 minutes)

We present our studies on polarons in a strongly interacting mixture formed by bosonic 41K impurities immersed in a Fermi sea of ultracold 6Li atoms, investigated by means of radio-frequency spectroscopy. The impurities can be either a thermal cloud or a partial Bose-Einstein condensate. The polaron energy for both the thermal cloud and the thermal part of the partial condensate can be described by a single impurity Fermi polaron, while the condensate fraction gives birth to a new branch in the radio-frequency spectrum, which can be explained by a Bose polaron.

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Session Classification: Atomic Physics and Quantum Optics

Track Classification: Atomic Physics and Quantum Optics