

Abstract Submitted
for the DAMOP18 Meeting of
The American Physical Society

Efimov states embedded in a quenched unitary Bose-condensed gas.¹ VICTOR COLUSSI, SILVIA MUSOLINO, SERVAAS KOKKELMANS, Eindhoven University of Technology, Eindhoven, The Netherlands — Three identical bosons at unitarity may form a series of three-body bound states whose spectrum was first given by Efimov [1]. Recently, a macroscopic population of Efimov molecules was measured for the first time in a Bose-condensed gas quenched to unitarity [2]. Through the method of cumulants [3,4], we study three-body physics in the many-body context. We report preliminary results for the spectrum of two- and three-body bound states embedded in the quenched unitary Bose-condensed gas. This study is in preparation for studying the dependence of macroscopic observables on Efimov physics. [1] V. Efimov, *Sov. J. Nucl. Phys.*, **29**, 546 (1979). [2] C. E. Klauss, X. Xie, C. Lopez-Abadia, J. P. D’Incao, Z. Hadzibabic, D. S. Jin, E. A. Cornell, *Phys. Rev. Lett.* **119** (14), 143401 (2017). [3] T. Köhler and K. Burnett, *Phys. Rev. A* **65**, 033601 (2002). [4] M. Kira, *Nat. Comm.*, 6:6624, (2015).

¹Netherlands Organisation for Scientific Research (NWO) under Grant 680-47-623.

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Date submitted: 25 Jan 2018

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