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**Chiara Boccato, Christian Brennecke, Serena Cenatiempo and Benjamin Schlein\***  
(benjamin.schlein@math.uzh.ch). *Excitation spectra of Bose gases.*

We establish the validity of Bogoliubov's predictions concerning the ground state energy and the energy of low-lying excitations for systems of  $N$  bosons trapped in a box with volume one in the so-called Gross-Pitaevskii regime, where the scattering length of the interaction is of the order  $1/N$  and  $N$  tends to infinity. (Received September 21, 2017)