

Minh-Binh Tran
(Texas A&M University)

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Boltzmann-type collision operators for Bogoliubov excitations of Bose-Einstein condensates

TUM Garching, room 03.08.011, Boltzmannstr. 3, 85748 Garching Forschungszentrum and
via Zoom:

<https://tum-conf.zoom.us/j/62288536119?pwd=YIRFVWxFV001ZmczUGISaDNnMDcxQT09>

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Abstract: In this talk, we describe the kinetic equation for the Bogoliubov excitations of the Bose-Einstein Condensate. We find three collisional processes: One of them describes the $1 \leftrightarrow 2$ interactions between the condensate and the excited atoms. The other two describe the $2 \leftrightarrow 2$ and $1 \leftrightarrow 3$ interactions between the excited atoms themselves.

This is a joint work with Yves Pomeau.