

**NON CONSERVATIVE BOLTZMANN TYPE EQUATION FOR
BOSE-EINSTEIN CONDENSATES FOR COLD BOSONS AND
WAVE TURBULENCE MODELS**

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We will discuss the similarities and differences of these two models for Bose-Einstein Condensates for Cold Bosons and Wave Turbulence models for gravity driven stratified flows. These are models of evolution for probability density distributions, and can be viewed as aggregation models that do not conserve mass.

We will describe their differences in terms of existence and uniqueness and long time behavior. This theory follows from solving these two flows models of non-linear no-local integral differential equations in Banach spaces.