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Experimental studies of bosonic quantum fluids in Brazil

In this talk I give a general overview of the studies we have performed in Bose-Einstein condensates in Brazil. We are running a Rb-87 condensate for a one year now. We focused our efforts on the observation of excited modes of the condensate. The excitation can be done by adding an extra oscillating field to the trapped condensate. In between we have observed the formation of vortices and studied their dynamics of formation as we do not have an rotating excitation.



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