Contribution ID: **423**   Type: **Talk (preferred)**

Exotic superfluids in multi-component homogeneous Bose-Einstein condensates

Tuesday 13 December 2022 16:45 (15 minutes)

We explore the properties of uniform quasi-two-dimensional condensates with several interacting internal degrees of freedom, which we model in terms of a multi-component Gross-Pitaevskii equations in the rotating frame for a Bose-Einstein condensate in different experimentally realistic box geometries.

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Session Classification: AIP: Computational and Mathematical Physics

Track Classification: AIP Congress: AIP: Computational and Mathematical Physics