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Dynamical vortex production and quantum turbulence in perturbed Bose-Einstein condensates

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We report investigations on dynamical vortex production and quantum turbulence emerging in periodic perturbed Bose-Einstein condensates, considering binary coupled mass-imbalanced systems, submitted to a stirring time-dependent perturbation. We also present some preliminary results on the case of dipolar single-atom systems under time-dependent periodic Gaussian perturbations.

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