



# A mean-field model for almost bosonic anyons: numerics

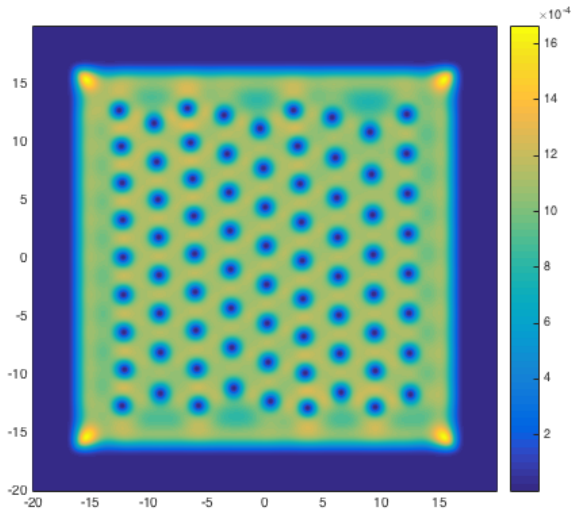
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Phase transition models, Banff  
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Joint works with Michele Correggi (Rome), Romain Duboscq (Toulouse) and Douglas Lundholm (Stockholm).

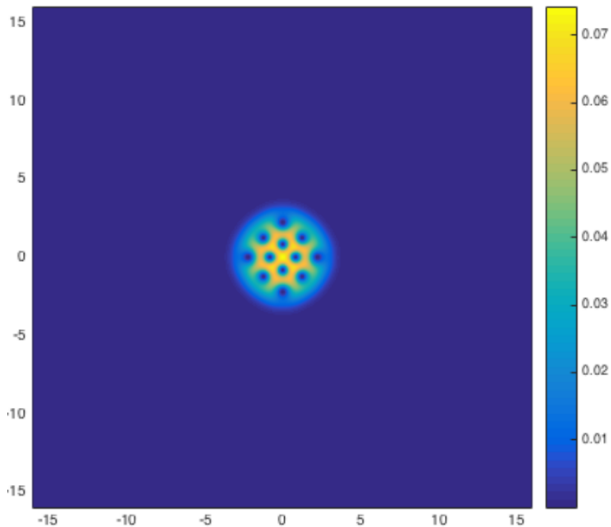
## Simulations by Romain Duboscq: homogeneous case

Flat trap. Density plot at  $\beta = 320$



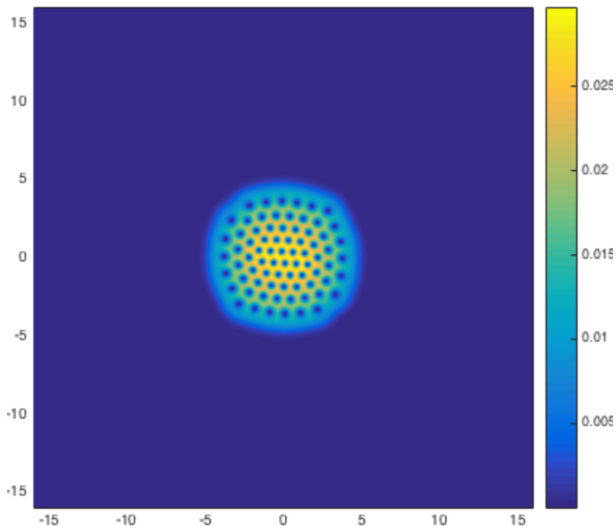
## Simulations by Romain Duboscq: trapped case

Harmonic trap  $V(x) = |x|^2$ . Density plots at  $\beta = 16$ .



## Cranking $\beta$ up

Harmonic trap  $V(x) = |x|^2$ . Density plots at  $\beta = 80$ .



## Cranking $\beta$ further up

Harmonic trap  $V(x) = |x|^2$ . Density plots at  $\beta = 300$ .

