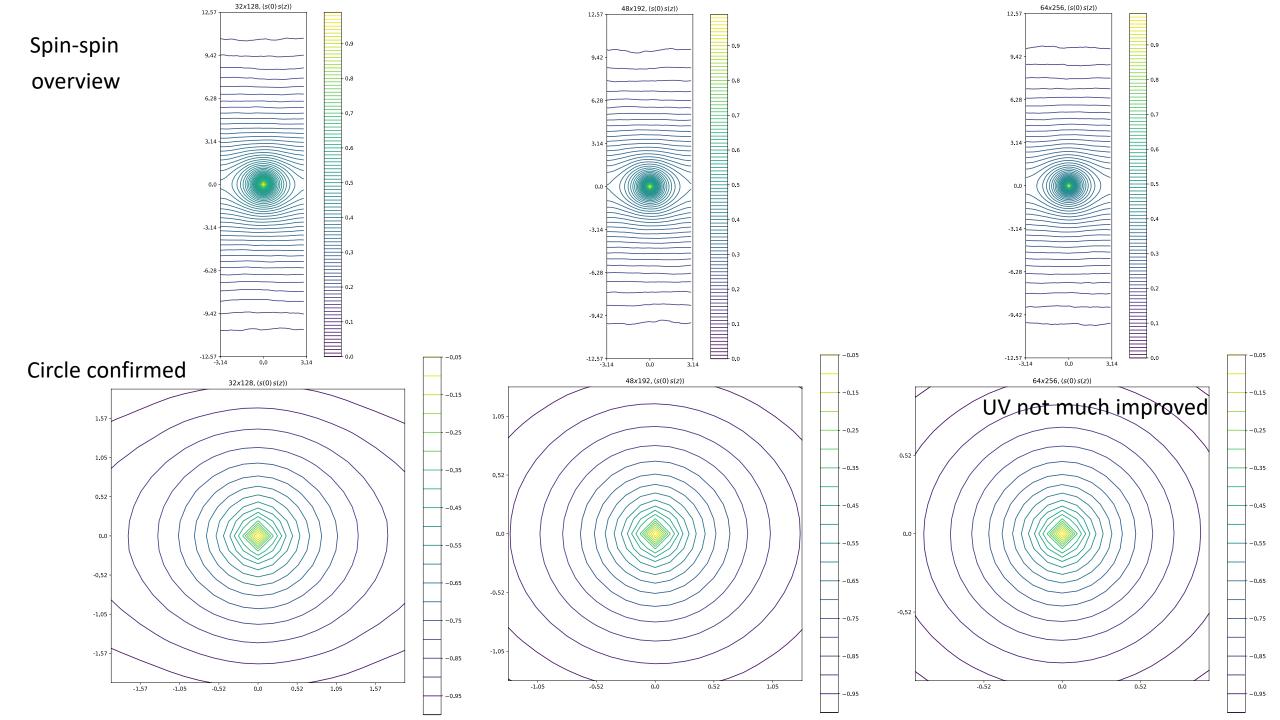
8/8 (Tue) v2

## What is addressed below:

- Crictical 2D Ising model, uniform coupling on square lattice ( $K_1 = K_2$ ;  $K_3 = 0$ )
- Volume = 32x128, 48x192, 64x256
- Check UV & IR behaviors of spin-spin and energy-energy correlators

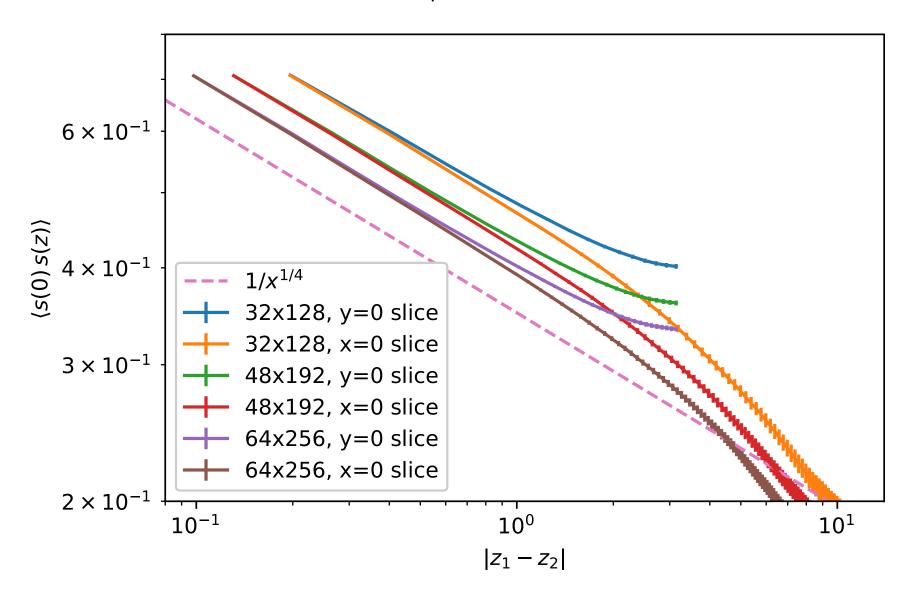
## Memo:

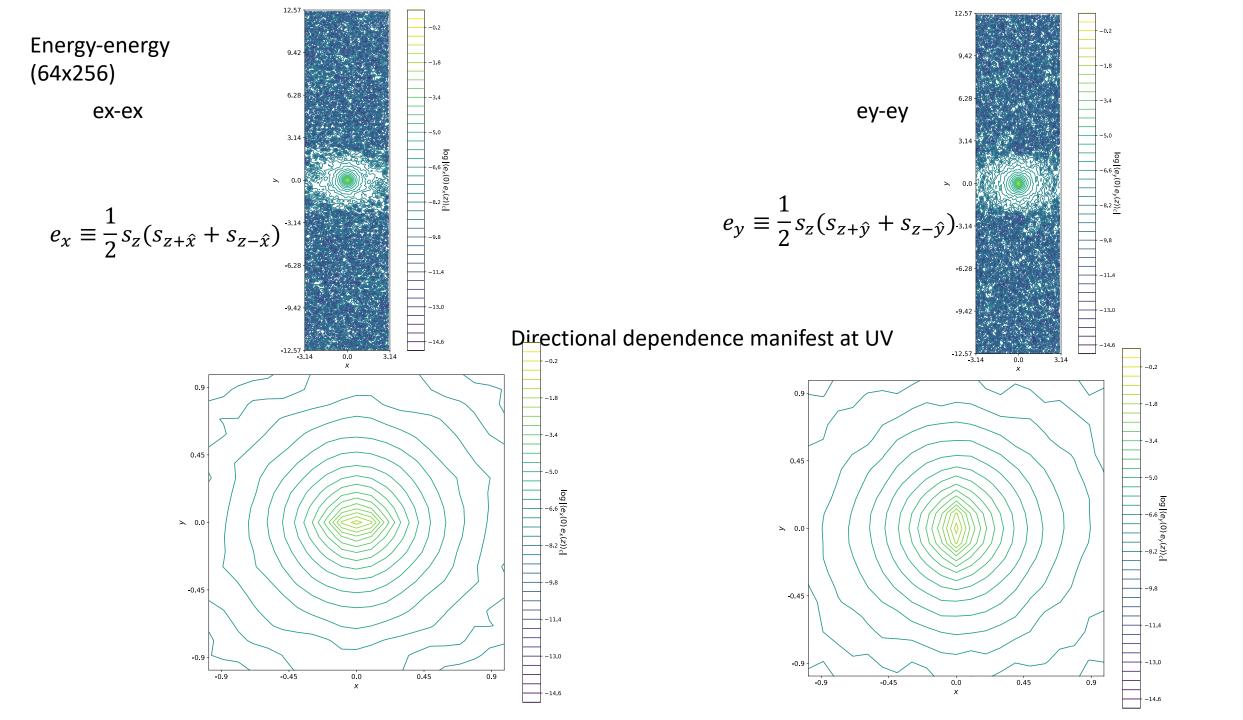
- n\_skip=50, n\_therm=n\_skip\*100, n\_therm=n\_traj\*1600. Wolff only
- Radial quantization picture, x rescaled to [-pi, pi]

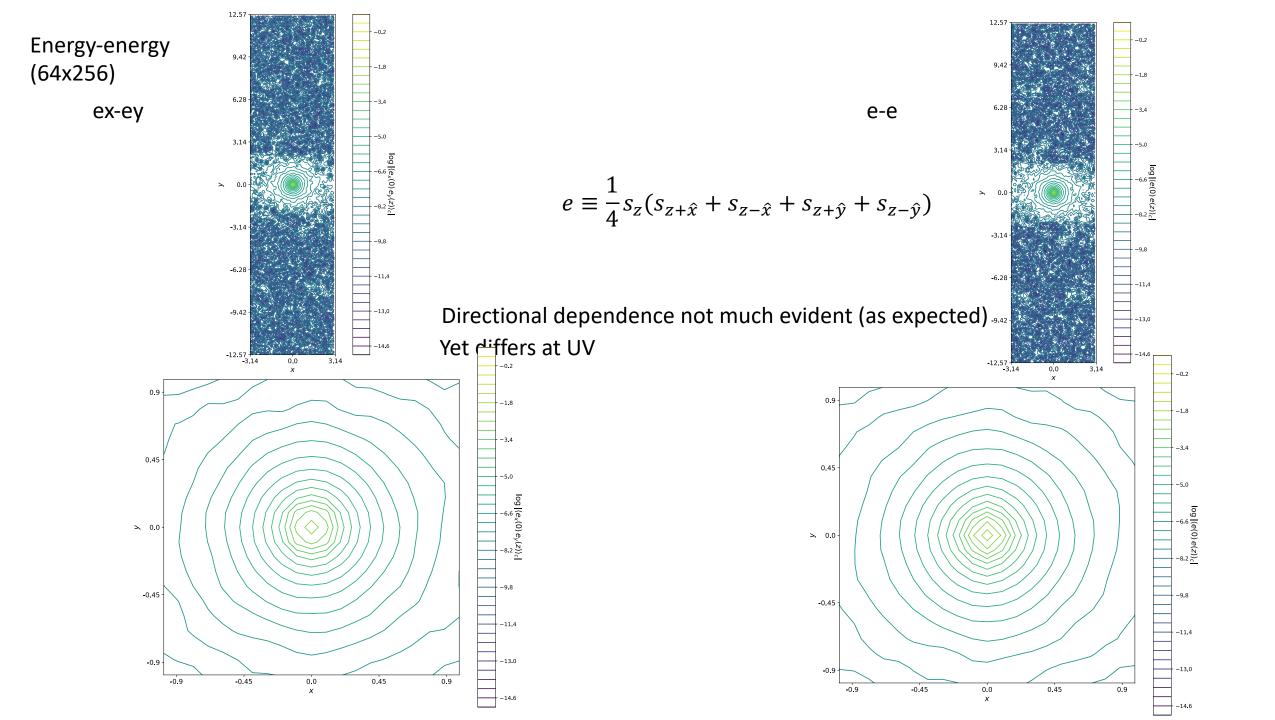


Spin-spin x=0 and y=0 slices

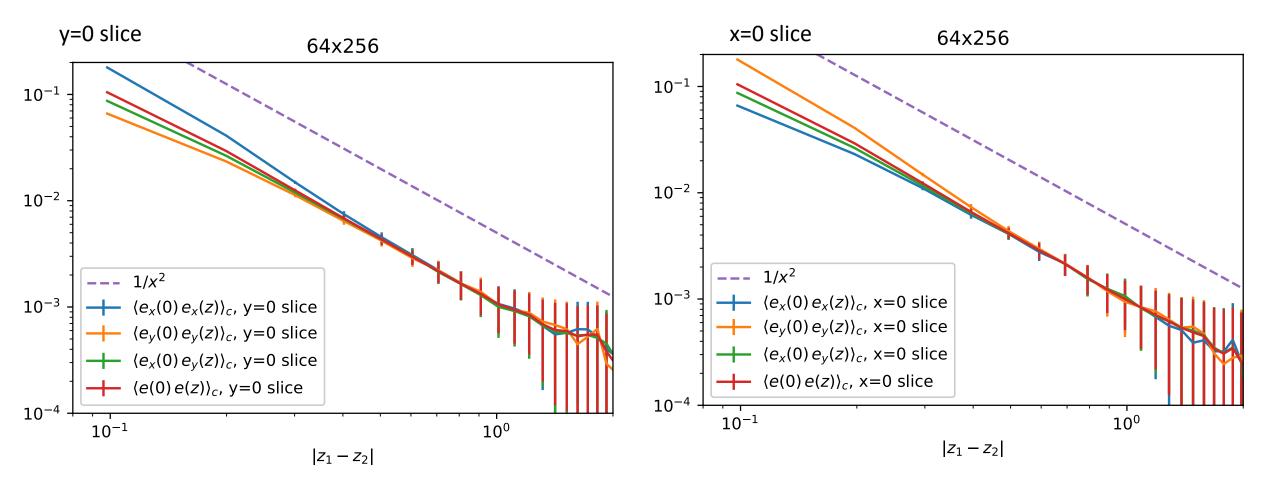
- Exponents seem to agree among three
- Reason for the overall factor needs to be understood; IR as well
  → compare to exact results of Francesco







## Energy-energy (64x256)



- Deviation at small distance (as expected)
- Small window but have power-like regions
  - → exponent needs to be compared to exact results

Energy-energy x=0 and y=0 slices

- Reason for the overall factor needs to be understood here as well (large chance of misunderstanding)
- Difference in IR not much evident as spin-spin

