

Outline

SLIDES SFT
2020

Nicodemo
Magnoli

Trap size
scaling

AdS/CFT and
Hydrodynamics

Passive scalar

Other articles,
talks, thesis...

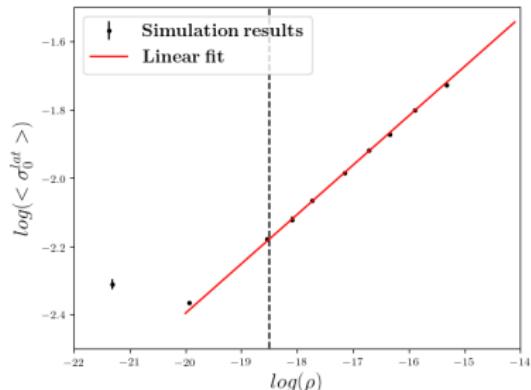
Publications
2019/20

- 1 Trap size scaling**
- 2 AdS/CFT and Hydrodynamics**
- 3 Passive scalar**
- 4 Other articles, talks, thesis...**
- 5 Publications 2019/20**

Participants

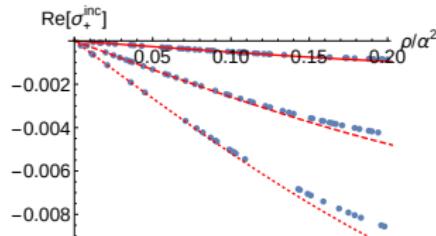
- Nicodemo Magnoli (responsabile locale)
- Andrea Amoretti (RTDA)
- Daniel Brattan (PostDoc)
- Marcello Scanavino (Dottorando)
- Nicola Rigolli (Dottorando)

■ $\langle \sigma(0) \rangle_\rho = A_\sigma \rho^\theta \Delta_\sigma$



AdS/CFT, HYDRODYNAMICS

- Relativistic magnetohydrodynamics and transport coefficients.
- Work in progress on holographic description of magnetized charge density waves (Amoretti, Arean, Brattan, Magnoli, Scanavino).



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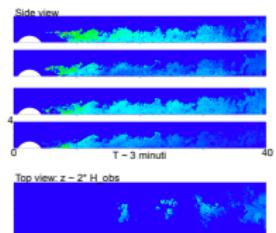
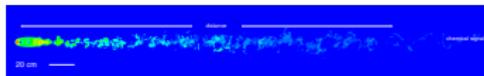
AdS/CFT and
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Publications
2019/20

■ Odor and turbulence (Magnoli, Seminara, Rigolli, Rosasco)



- Schwinger effect in BCS superconductors (Amoretti, Solinas, Giazotto).
- Effective string model for the interquark potential near the deconfinement temperature (Caselle, Nada, Panero, Scanavino, Magnoli).
- Amoretti was invited in a workshop in Leiden to give a seminar: Hydrodynamics at all length scales.
- Amoretti has supervised a thesis by Luca Martinoia on hydrodynamics with anomalies and Weyl semimetals.

- Amoretti et al, JHEP 01 (2020) 058.
- Amoretti et al, JHEP 10 (2019) 068.
- Amoretti et al. Phys.Rev.Lett. 123 (2019).
- Caselle et al, Phys.Rev.D 100 (2019).
- Amoretti et al, Phys. Rev. Res. 2 (2020).
- Amoretti et al, submitted to JHEP (2020).
- Amoretti et al, submitted to Nature physics (2020).
- Amoretti et al, to be submitted to Phys.Rev.D (2020).