

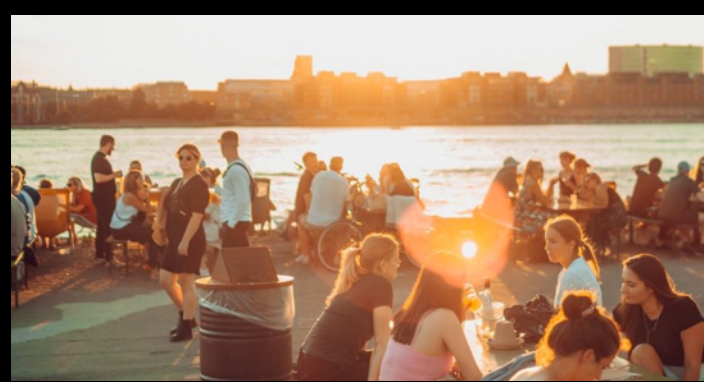
NEW IDEAS ON...

# THE ORIGIN OF BLACK HOLE MERGERS



NIELS BOHR INSTITUTE 2024

August 12th - August 16th, 2024  
Niels Bohr Institute, Copenhagen

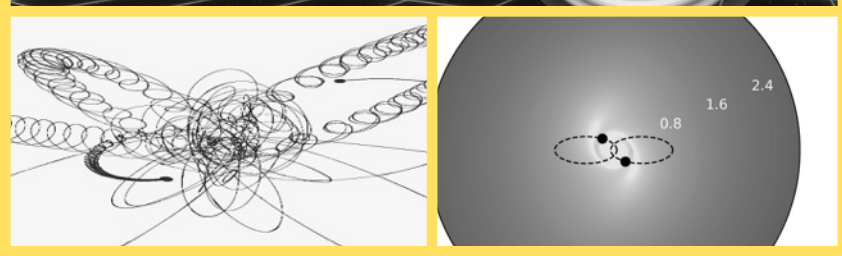
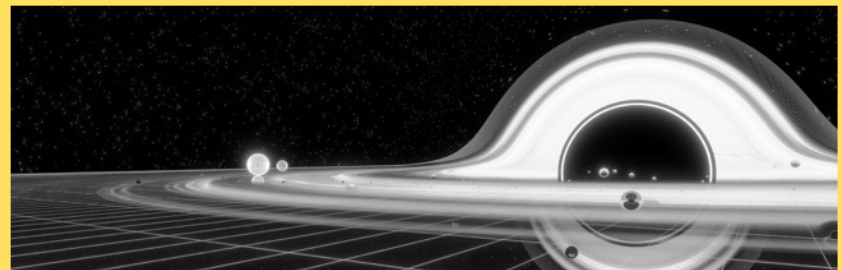


## Organizers:

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- \* Lorenz Zwick
- \* Alessandro A. Trani
- \* Christopher Tiede

## Topics:

- \* Environmental Effects on GWs
- \* BH Dynamics and Gas Effects
- \* BH Interactions in AGN Disks
- \* Population Modeling
- \* LVK/LISA GW-form modeling
- \* New Ideas



$$+ \sqrt{1 - \frac{1}{E^2}} \left\{ -6 \left( 5e_{3-i,x} \left( 2e_{3-i,z} \left( 1 + (23E^4 - 12E^2 + 4) J_{i,z} J_{3-i,y} \right) \right) e_i^2 + 577 J_{i,y} J_{3-i,x}^2 E^4 + 421 J_{i,y} J_{3-i,y}^2 E^4 \right) \right.$$

$$\left. \frac{\delta t}{T} \quad \delta \phi \approx 2\pi \delta t / T \right.$$

