

# String duality applications on compact stars in gravitational wave observation

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For black holes, we apply the Seiberg-Witten (SW)/Quasinormal Modes (QNM) correspondence to analytically calculate the black hole QNM and superradiance frequencies. For neutron stars, two types of holographic QCD is used to extract the equation of state. We then discuss the gravitational wave observation interpretations and restrictions on those compact star models.

**Presenter(s) :** ZHANG, Kilar (Shanghai University)

**Session Classification :** Day1 Main venue