Contribution ID: **507** Type: **Invited talk in the parallel session**

What do the EHT observations tell us about the source?

Monday, 5 July 2021 16:30 (20 minutes)

The Event Horizon Telescope collaboration has released 1.3mm interferometric observations of the core of the galaxy M87. I will review the observations and the general physical principles involved in their interpretation. After describing the basic heuristics needed to understand the effect of a black hole on the observational appearance of nearby emission, I will emphasize that gravitational lensing is largely irrelevant at EHT resolution. Instead, the observational appearance of a given source is determined entirely by the emission profile and redshift effects. I will comment on the specific interpretation of the public 2017 observations and discuss what we can expect going forward.

Primary author: GRALLA, Sam (University of Arizona)

Presenter: GRALLA, Sam (University of Arizona)

Session Classification: The Black Hole in M87

Track Classification: Active Galactic Nuclei: The Black Hole in M87