

When is a Black Hole Full?

Galaxies, Extended Emission Line
Nebulae, AGN, Quasar Ionization
Echoes, Citizen Science, and You!

Bellevue College | Audrey Dijeau | June 16, 2026

Students (and anyone else) can participate in Galaxy Zoo
here: <https://www.zooniverse.org/projects/zookeeper/galaxy-zoo>

Referenced works:

- Cardamone et al. 2009 **"Galaxy Zoo Green Peas: discovery of a class of compact extremely star-forming galaxies"** <https://doi.org/10.1111/j.1365-2966.2009.15383.x>
- Dijeau et al. 2025 **"The Green Chile Project. I. A New Catalog of Low-redshift Extended Emission-line Nebulae"** <https://doi.org/10.3847/1538-3881/adb485>
- Lintott et al. 2008 **"Galaxy Zoo: morphologies derived from visual inspection of galaxies from the Sloan Digital Sky Survey"** <https://doi.org/10.1111/j.1365-2966.2008.13689.x>
- Prescott and Sanderson 2019 **"Understanding Lyman-alpha Nebulae at Low Redshift I: The Sizes, Powering, and Kinematics of "Green Bean" Galaxies"** <https://doi.org/10.3847/1538-4357/ab44b1>
- Schirmer et al. 2013 **"A Sample Of Seyfert-2 Galaxies With Ultraluminous Galaxy-wide Narrow-line Regions: Quasar Light Echoes?"** <https://doi.org/10.1088/0004-637X/763/1/60>