

Department of Mathematics

Spring 2017 Colloquium Series



***“Understanding quasars: the study of galaxies far,
far away...”***

**Paola Rodriguez Hidalgo,
Humboldt State University**

Thursday, March 9, 2017

Behavioral and Social Sciences Building Room 204, 4 pm

Quasars are among the most luminous objects in the sky. These very energetic regions lie at the center of massive galaxies and powered by a super-massive black hole. While it has been found that there is a correlation between the mass of these super-massive black holes and the mass of the surrounding galaxies, the co-evolution of galaxies and quasars is barely understood. Outflows launched from the vicinity of super-massive black holes are a key piece in this puzzle, possibly linking the small and the large-scale phenomena.

We have discovered that some of this gas is out-flowing at very high speeds (up to 216 million km/h!). To better characterize these outflows, our group is conducting an encompassing multi-wavelength study of quasar outflows. All these results have implications for current theoretical models and will help us better understand quasars.

Paola Rodriguez Hidalgo is from Spain, and studied at the Instituto of Astrofisica de las Islas Canarias. She earned her doctorate at the University of Florida, did a postdoctoral position at the Pennsylvania State University, and another postdoctoral position at York University. She was a visiting assistant professor at the University of Toronto, and a Research Associate back at York University before coming to Humboldt.

To view this poster online, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>

***We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS
building at 3:30 pm on Thursday.***