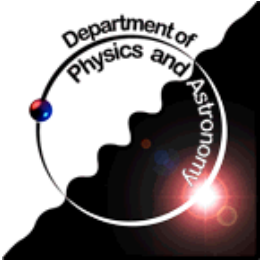


An online seminar series organized jointly by SFU, UBC and UVic.



PHYSICS AND ASTRONOMY SEMINAR

Alice Shapley
UCLA

The Search for Ionizing Radiation at High Redshift

Determining the contribution of galaxies to the reionization of the universe is a fundamental goal for studies of the intergalactic medium (IGM), and galaxy formation and evolution. A direct measurement of ionizing Lyman-continuum radiation escaping from galaxies is not possible at the epoch of reionization, due to the high optical depth of the IGM, and therefore observations of this process at slightly lower redshift are crucial for understanding what happens at $z > 6$. For the past several years, we have been attempting direct imaging and spectroscopic observations of escaping ionizing radiation at $z \sim 3$, using both ground-based and HST data. These observations have uncovered many possible sources of Lyman continuum radiation, but also reveal the challenges associated with low-redshift contamination. We highlight the current state of the field and promising upcoming methods for determining f_{esc} , the escape fraction of ionizing radiation.

Wednesday, June 23, 2021

10:00 a.m. PST

For more information: <https://www.sfu.ca/~jwa304/seminars.shtml>