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Cosmological Evolution of the Radio-loudness of Quasar Sources

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I will present our (Singal et al. 2011, 2013) approach to the cosmological evolution of the radio-loudness parameter for quasar sources. In particular, I will show how we determine the radio and optical luminosity evolutions for a set of >5,000 quasars combining the SDSS and FORST data, based on the method of Efron and Petrosian (1993), to access the intrinsic distribution of the radio-loudness parameter (defined as the ratio of the radio to optical luminosity), taking into account the truncations and correlations inherent in the data. In this approach, we found that the intrinsic distribution of the radio-loudness is quite different from the observed one, is smooth with no evidence of a bimodality, and that the fraction of the radio-loud quasars increases with inscribing redshift (contrary to several claims presented in the literature).

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