

Test of the QSOs Evolution Models

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The spectrum-luminosity correlation, which is obtained under the assumption based on the similarity of emission mechanism between Galactic Black hole candidates (GBHCs) and QSOs, provides an important test of evolution model of QSO luminosity functions (LFs): a single long-lived ($\geq 10^9$ yr) QSO population and many short-lived ($\sim 10^7$ yr) QSO populations. LFs derived by the single population model in which QSOs are long-lived and born nearly synchronously are found to be in better agreement with the observational data than multiple population model.