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A Complete Census of Quasars

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Nowadays, there are significant selection effects in searching for quasars. To get a complete census of quasars, we can't just look at those objects which have excess UV light compared to stellar sources, because quasars reddened by dust are not negligible and should be considered. In my master's project, we mainly focus on the red quasars. We got the spectra of 50 quasars using the NOT and the GTC, among which we are attracted by the so-called detached quasars. They don't show obvious emission features in the optical band, which makes it extremely difficult to determine their redshift. However, we found a quantitative method to measure the onset of the Lyman-alpha forest, which can help in the determination of the quasar's redshift.

Primary authors: MA, Guozhen; Prof. FYNBO, Johan

Presenter: MA, Guozhen