We conduct a survey of new high-redshift quasars using imaging and spectroscopy. Our survey strategy involves color selection of high-redshift quasar candidates from PanSTARRS1 3pi sky survey followed by spectroscopy with the largest telescopes. The combination the PanSTARRS1 bands with one of the near-infrared J, H or K band is able to significantly improve the color selection of high-redshift quasars. In spring 2017 we performed test J-band observations of one of our candidates selected from PanSTARRS1 with the NCUCam installed on the 2.2-m UH88 telescope of Hawaii University. The obtained data were used to confirm the quasar identity of the candidate and helped us to request spectroscopic time for its observations at the 8-m Gemini telescope.

|  |  |
| --- | --- |
|  |  |