

Extended emission in the NIRSpec Fixed Slit spectra of twelve $z\sim 6$ SHELLQs quasars

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We present JWST/NIRSpec fixed slit spectra of 12 $z\sim 6$ low-luminosity quasars and their host galaxies from the HSC SHELLQs sample. By modelling and subtracting the point-source quasar profiles from the 2D spectra, we reveal emission from the quasar's host galaxy extending at least 3 kpc. Of the 12 extracted spectra, at least seven show extended emission from the [OIII] 4959/5007 doublet and/or Balmer lines, and at least two sources show evidence of an extended stellar continuum. We present analysis of these extended spectra, inferring host galaxy properties and comparing to hosts of low-luminosity quasars at lower redshifts.

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