



Extended Data Figure 3 | Optical, infrared and millimetre-wavelength image of SPT0311–58. The field around SPT0311–58 is shown, as seen with ALMA and HST at 1.3 mm (ALMA band 6; red), 1,300 nm (combined HST/WFC3 F125W and F160W filters; green) and 700 nm (combined

HST/ACS F606W and F775W filters; blue). For emission from $z = 6.9$, no emission should be visible in the ACS filters owing to the opacity of the neutral intergalactic medium, whereas the other filters correspond to rest-frame 160 nm and 160 μm .