Rest-frame FUV-to-FIR view of LBGs at $z \sim 3$: Templates and Dust attenuation

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Abstract

This work explores from a statistical point of view the rest-frame far-ultraviolet (FUV) to far-infrared (FIR) emission of a population of Lyman break galaxies (LBGs) at $z \sim 3$ that cannot be individually detected from current FIR observations. We perform a stacking analysis over a sample of $\sim 17000$ LBGs at redshift $2.5 < z < 3.5$ in the COSMOS field. The sample is binned as a function of UV luminosity (LFUV), UV continuum slope (