



FIG. 3. Simulated recoveries (black points with error bars) of the ionization history (red curve) from kSZ measurements alone (top panel), global 21 cm measurements alone (middle panel), and combined constraints (bottom panel). One sees that combining kSZ and 21 cm measurements can significantly improve constraints on the ionization history. However, the correlated nature of the errors mean that the fits can be difficult to evaluate in this space, as illustrated by the blue squares in the bottom panel, where a particularly unlucky noise realization can give results that appear to be egregiously inconsistent.

