The figure illustrates the relationship between the synchrotron upper limit and the dust emission in the context of cosmological models, specifically the lensed-LCDM framework. The graph plots the bandpowers of the cosmic microwave background (CMB) in terms of the band center frequency, with bandpowers given in \( \mu K^2 \). The axes represent the nominal band center frequency in GHz on the x-axis and the BB in \( l(l+1)C/2\pi \) on the y-axis, ranging from \( 10^{-4} \) to \( 10^{1} \). The data points are categorized by the extent of noise uncertainty and are color-coded for clarity. The dust emission is indicated by a blue shaded area, while the synchrotron effects are represented by a red shaded area. The graph also includes the r=0.05 line, which helps in determining the limits for different band powers.