Ground-state $|d,\chi\rangle\otimes\gamma$

$\frac{V}{t_{\perp}}$ vs $\frac{U_b}{t_{\perp}}$	3-orbital
$\frac{U_b}{t_\perp} \to 0, \frac{V}{t_\perp} \to 0$	$(\sigma,0\rangle + \alpha 0,\sigma\rangle) \otimes 2\rangle$
$\frac{\overline{U_b}}{t_{\perp}} \to 0, \ \frac{\overline{V}}{t_{\perp}} $ large	$(0,2\rangle + \alpha SS\rangle) \otimes 2\rangle$
$\frac{U_b}{t_\perp}$ large, $\frac{V}{t_\perp} \to 0$	$(\sigma,0\rangle + \alpha 0,\sigma\rangle) \otimes 0\rangle$
$\left[\begin{array}{c} \frac{U_b}{t_\perp} \to 0, \ \frac{V}{t_\perp} \ \text{large} \end{array}\right]$	$(0,2\rangle + \alpha SS\rangle) \otimes 0\rangle$

Ground-state $|d,\chi\rangle\otimes\gamma$

$igg _{U_b}^{V} ext{ vs}_{U_b}^{t_{\perp}}$	3-orbital
$\frac{t_{\perp}}{U_b} \rightarrow 0, \ \frac{V}{U_b} \rightarrow 0$	$(\sigma,0\rangle + \alpha 0,\sigma\rangle) \otimes 0\rangle$
$\frac{t_{\perp}}{U_b} \to 0, \frac{V}{U_b} \text{ large}$	$(0,2\rangle + \alpha SS\rangle) \otimes 0\rangle$
$\frac{t_1^2}{U_b}$ large, $\frac{V}{U_b} \to 0$	$(\sigma,0\rangle + \alpha 0,\sigma\rangle) \otimes 2\rangle$
$\frac{t_{\perp}}{U_b} \to 0, \frac{V}{U_b} \text{ large}$	$(0,2\rangle + \alpha SS\rangle) \otimes 2\rangle$

Ground-state $|d,0\rangle$

e-SIAM
Hubbard Sideband:
$ \ket{0,0},\ket{2,2},\ket{CS}$
Central Peak:
$ ss\rangle, \sigma, 0\rangle, \sigma, 2\rangle$