

# Color Appendix

THIS Appendix contains the color versions of the various color figures in the thesis. All of these are also presented in the main body of the thesis in a black and white version. The figures are not always displayed in order of appearance in the thesis to minimize the color space used. For the same reason the captions only refer to the Figure in the main body where a full description can be found.

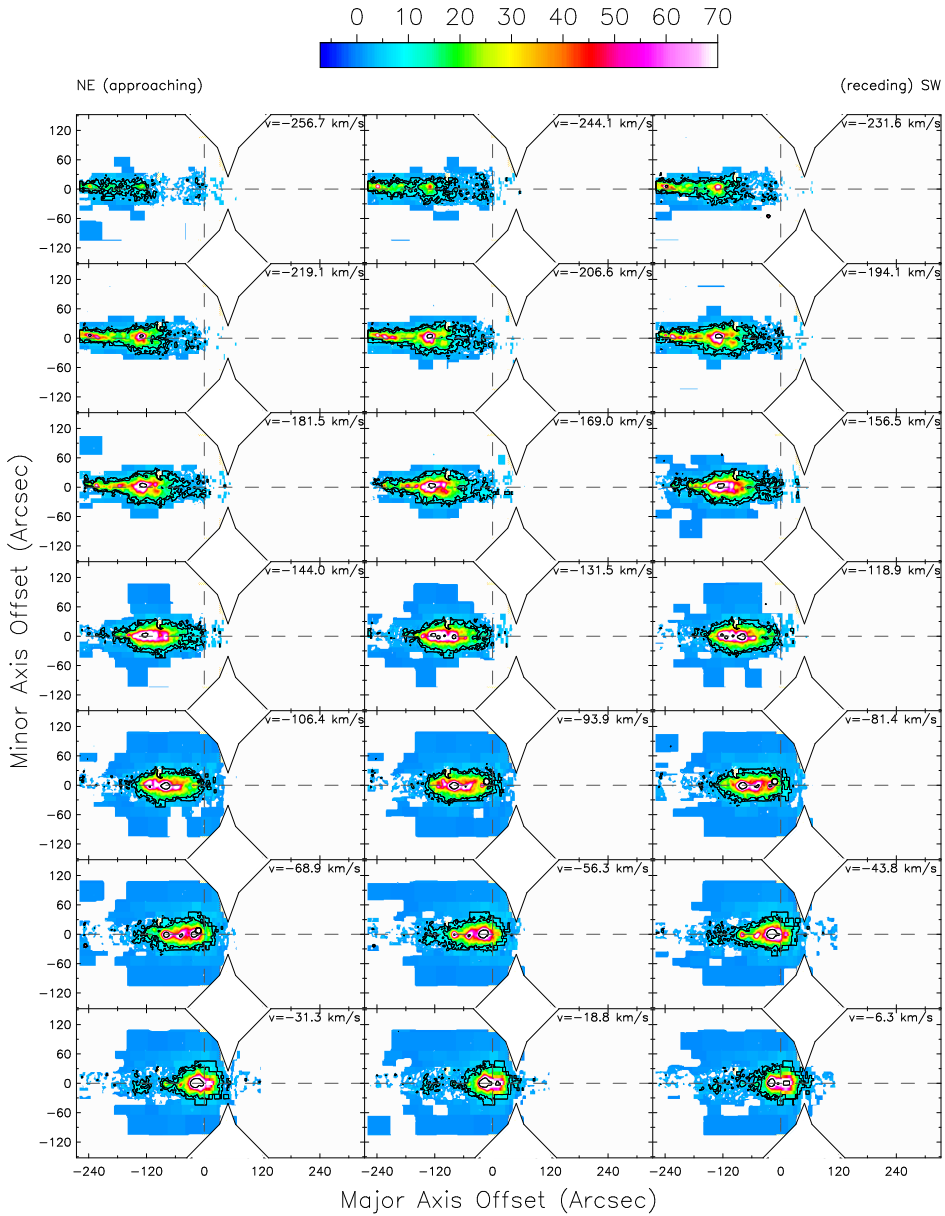


Figure 7.1: Fig. 2.3

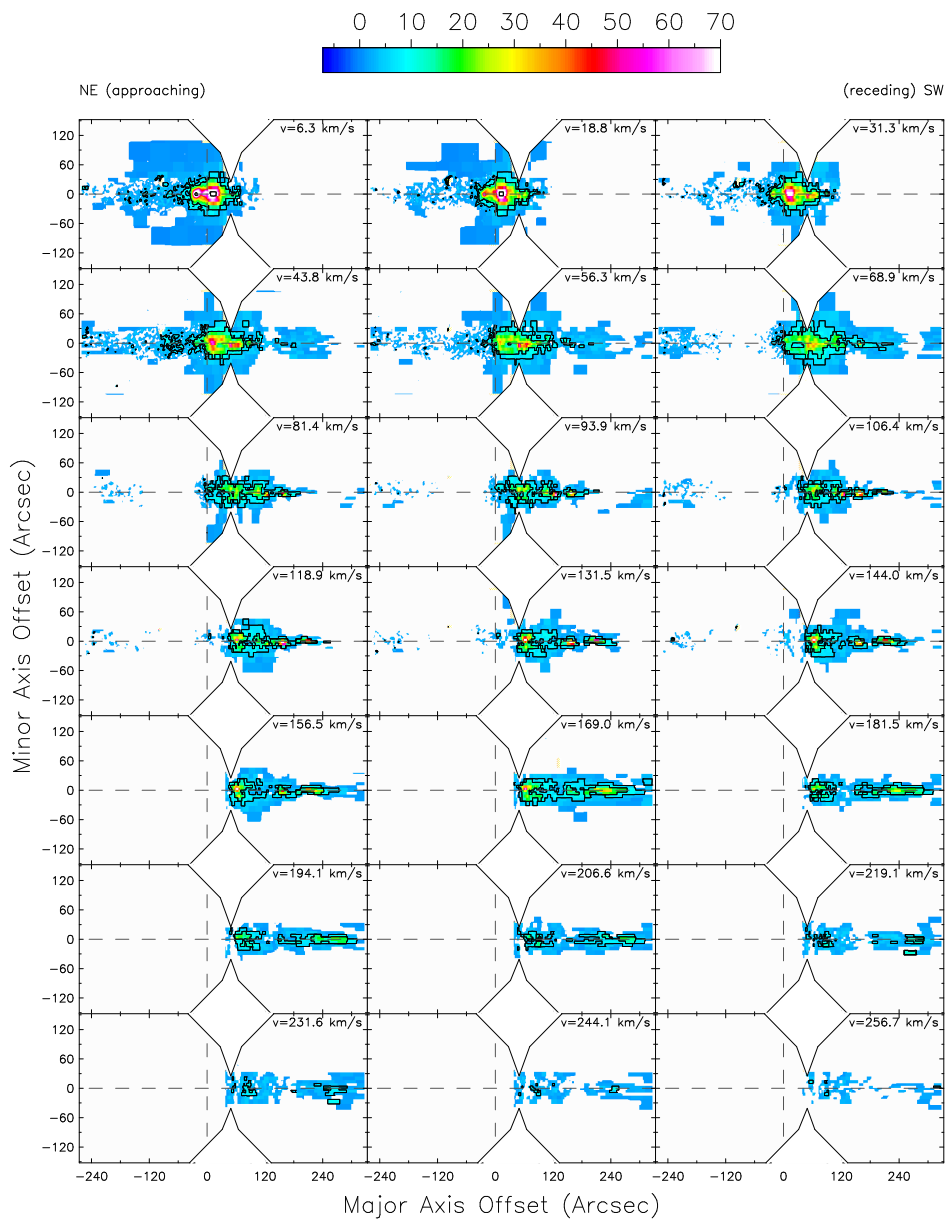


Figure 7.2: Fig. 2.4

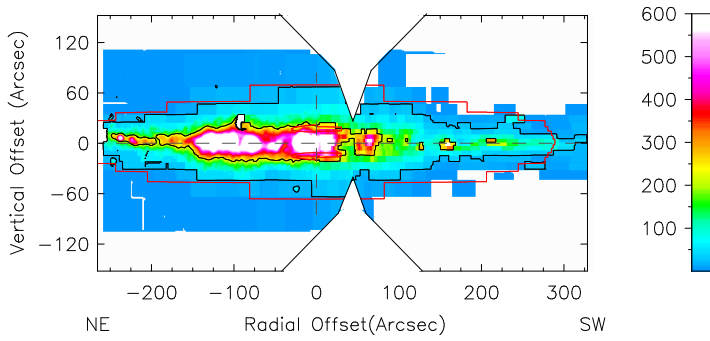


Figure 7.3: Fig. 2.5

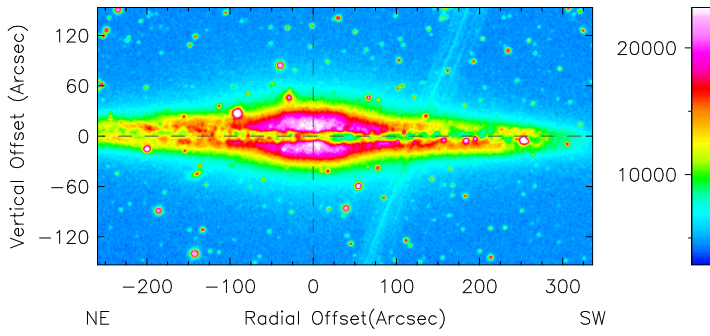


Figure 7.4: Fig. 2.6

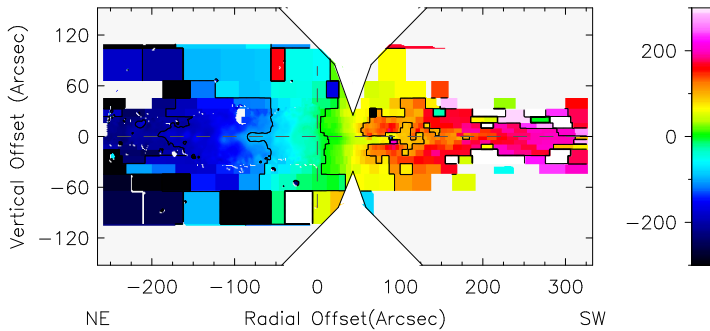


Figure 7.5: Fig. 2.7



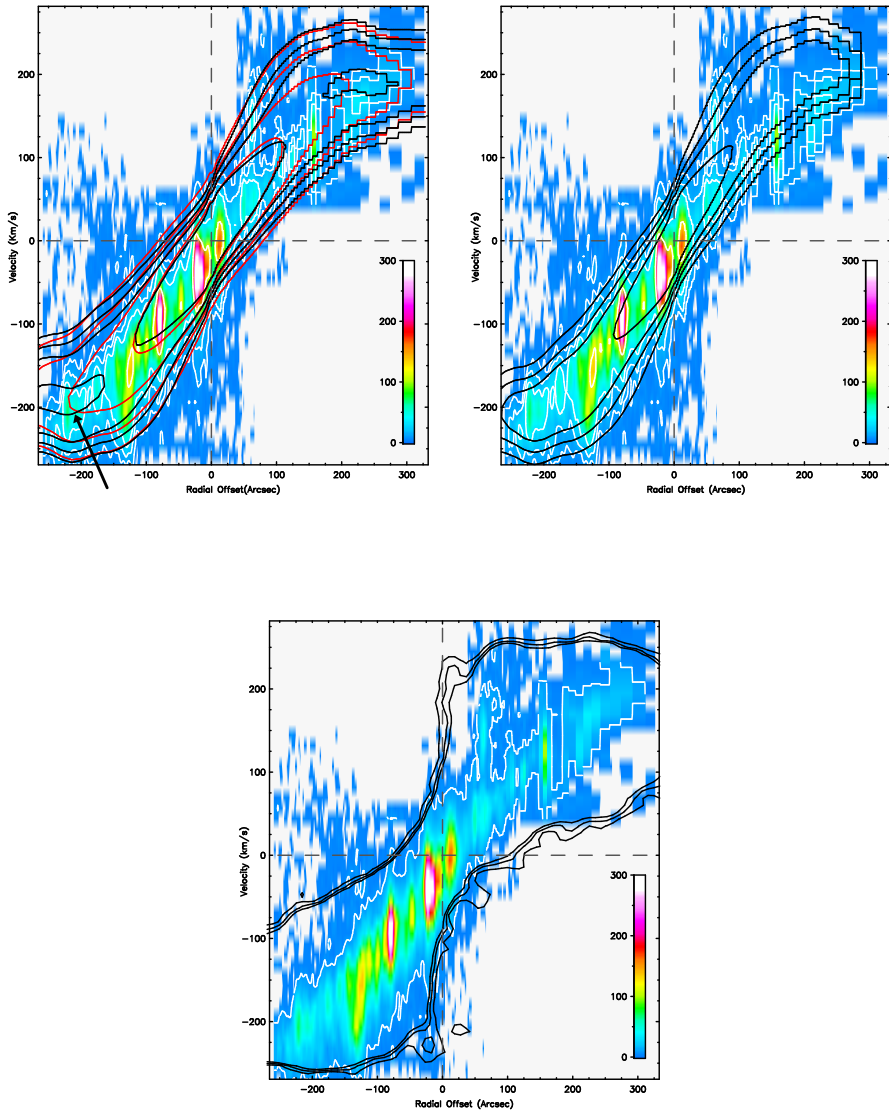


Figure 7.6: Fig. 2.8

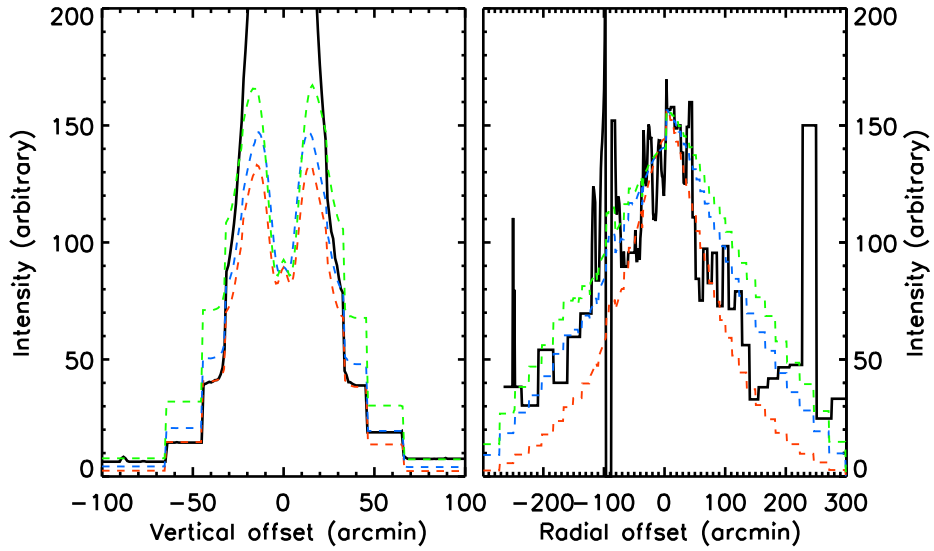


Figure 7.7: Fig. 2.9

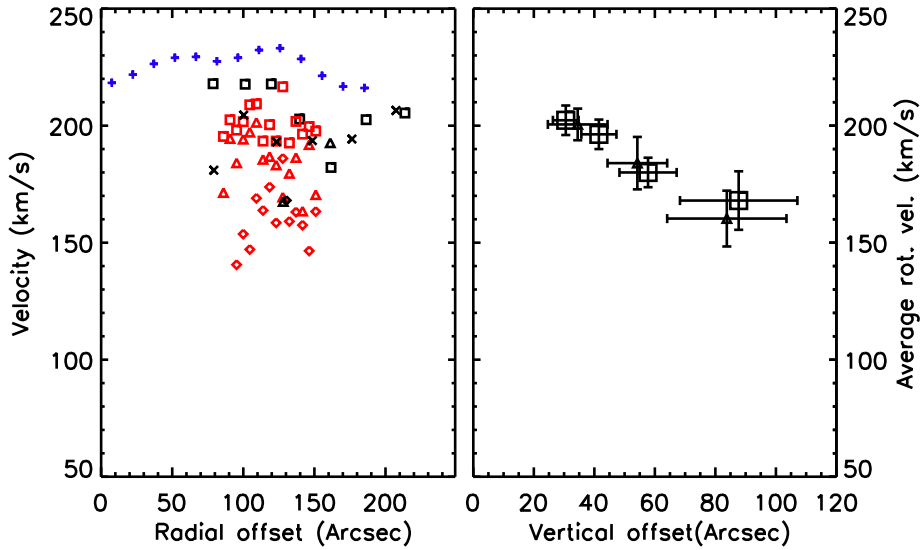


Figure 7.8: Fig. 2.12

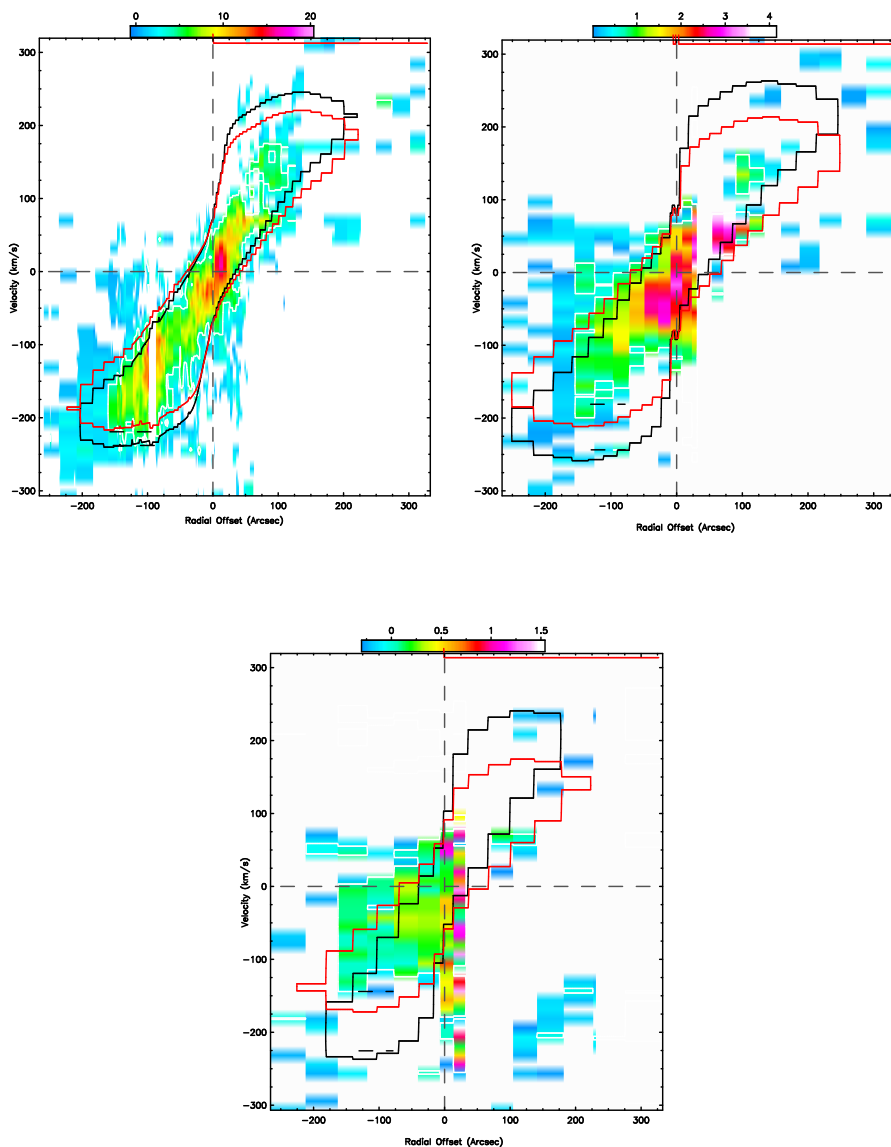


Figure 7.9: Fig. 2.11

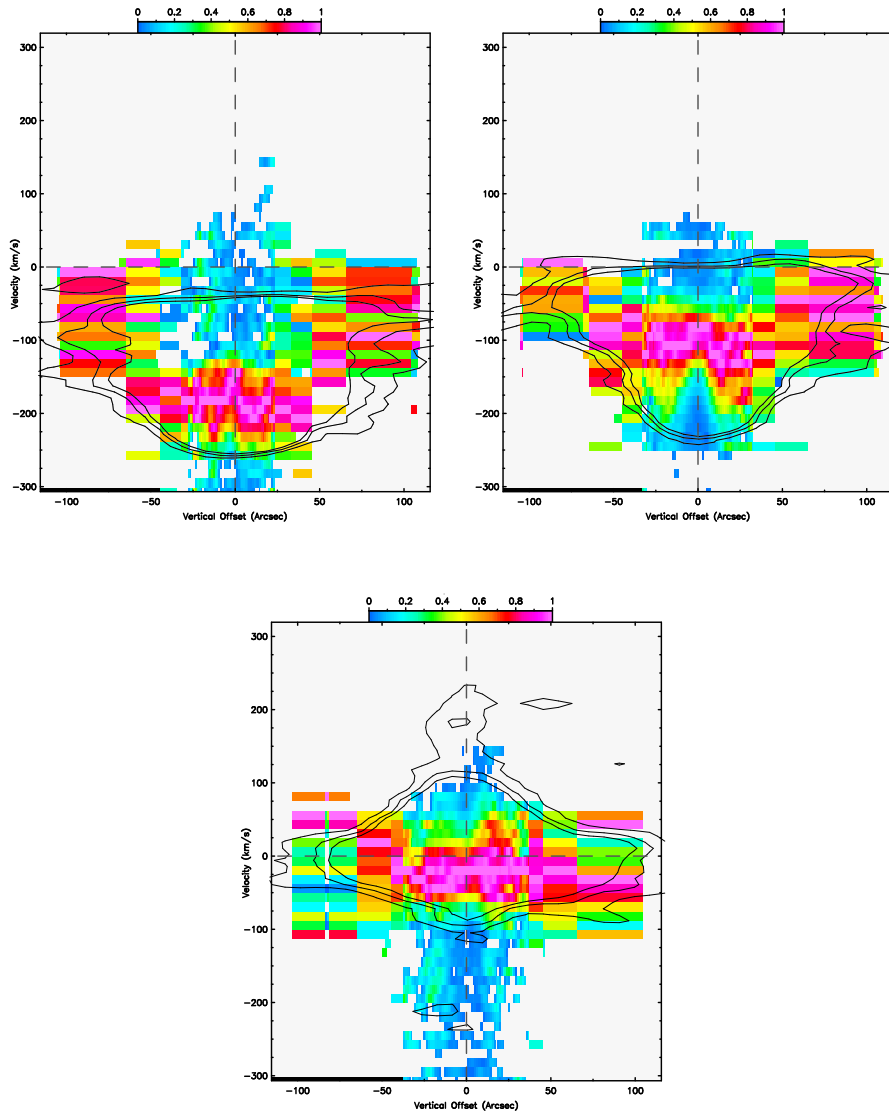


Figure 7.10: Fig. 2.13

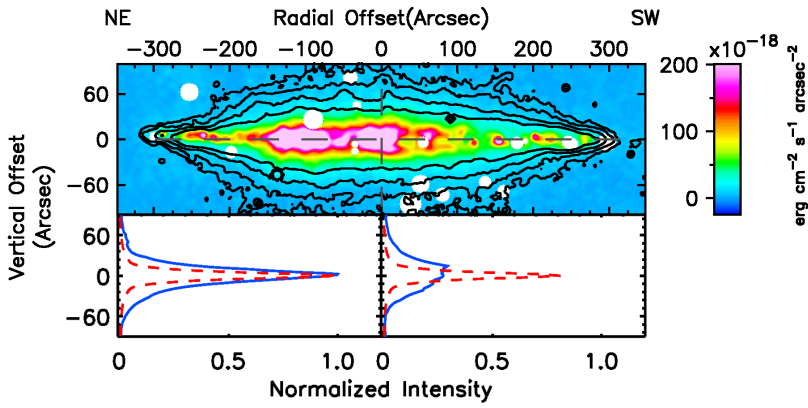


Figure 7.11: Fig. 3.1

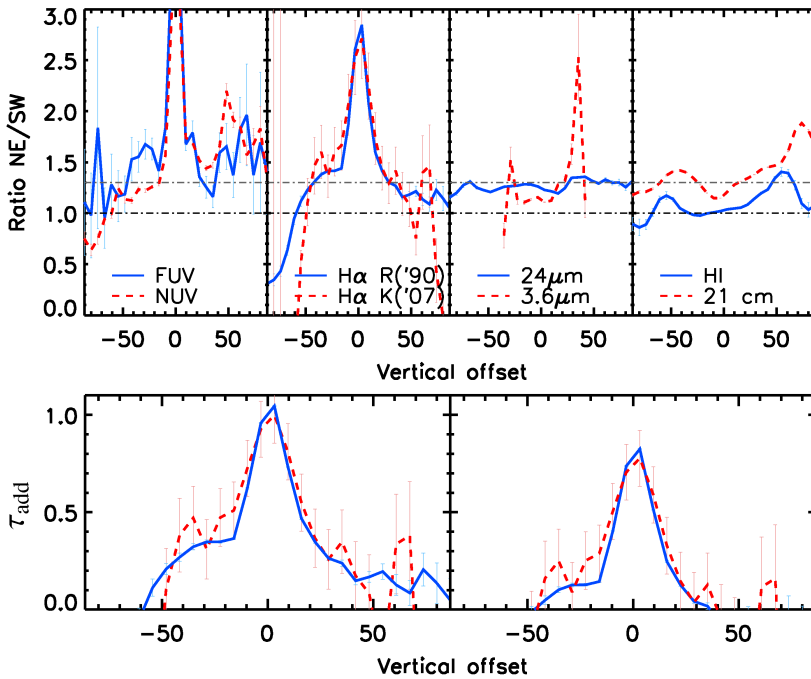


Figure 7.12: Fig. 3.2

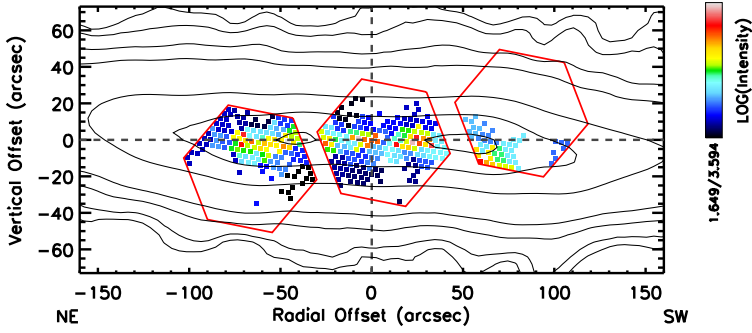


Figure 7.13: Fig. 4.1

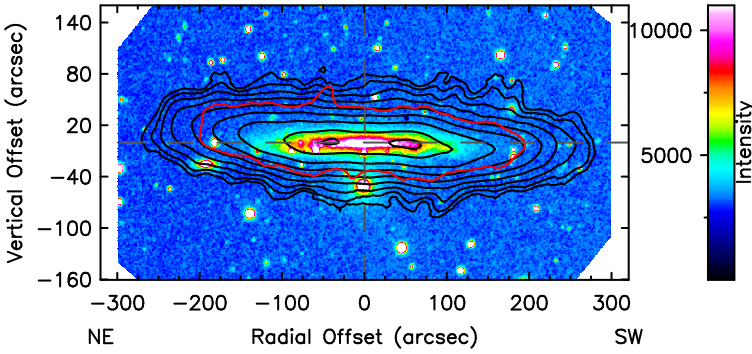


Figure 7.14: Fig. 4.2

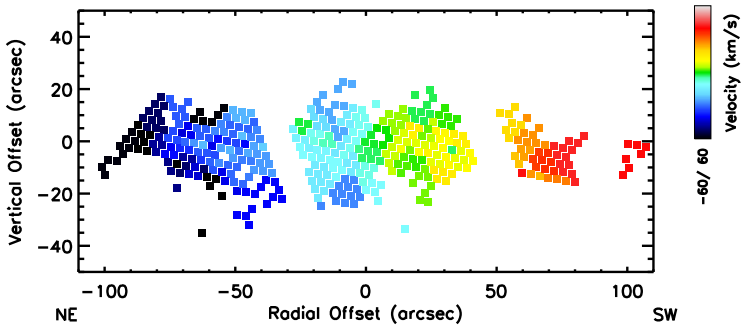


Figure 7.15: Fig. 4.4

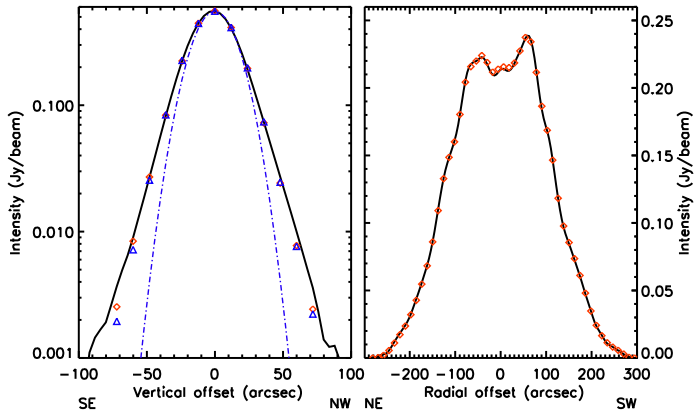


Figure 7.16: Fig. 4.3

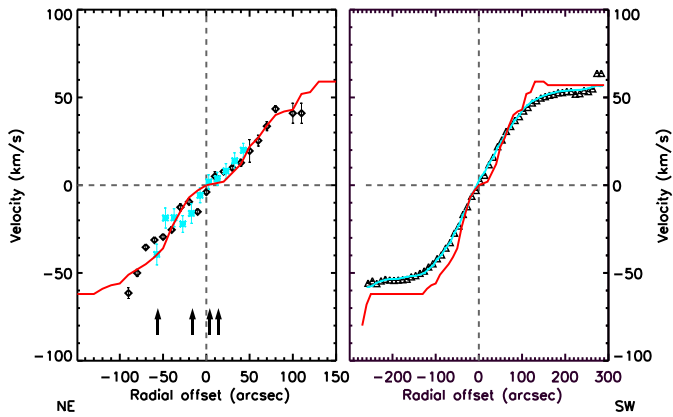


Figure 7.17: Fig. 4.5

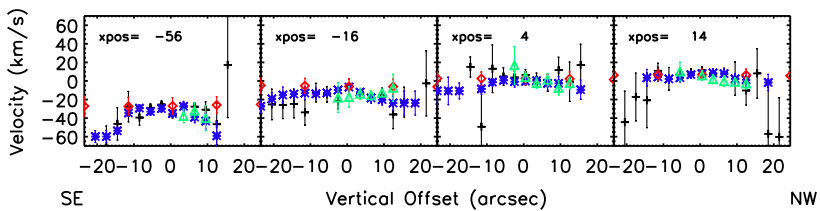


Figure 7.18: Fig. 4.6

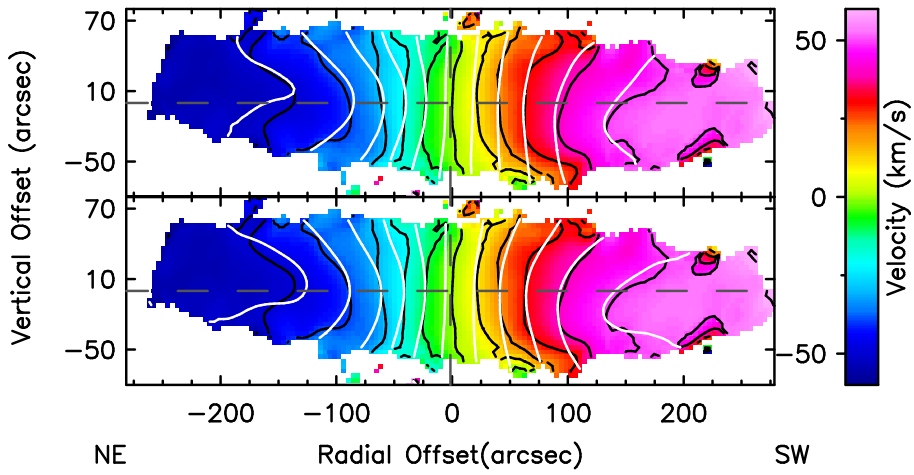


Figure 7.19: Fig. 4.7

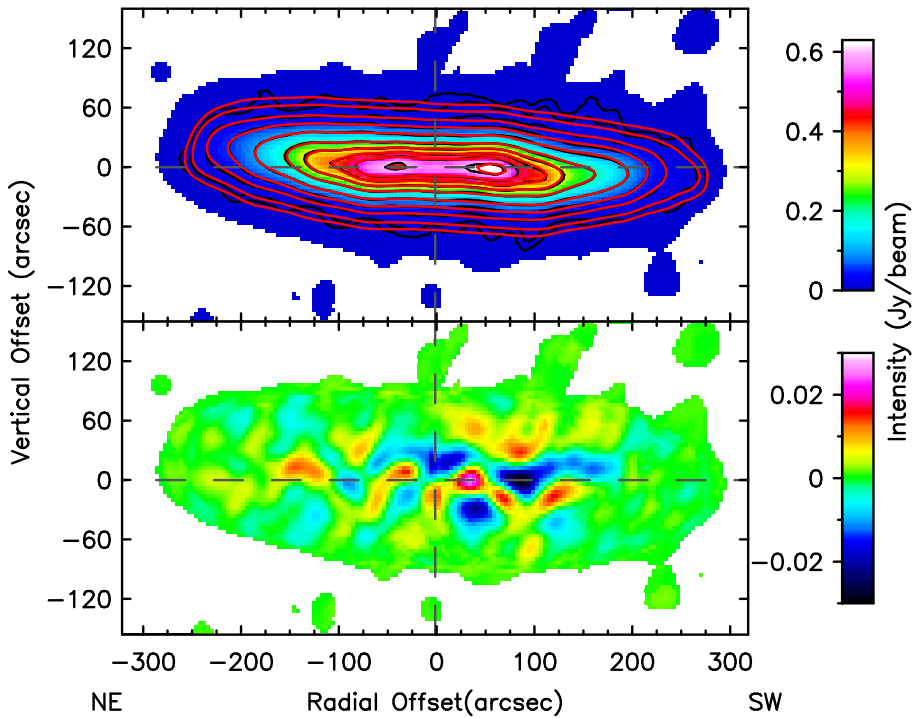


Figure 7.20: Fig. 4.9



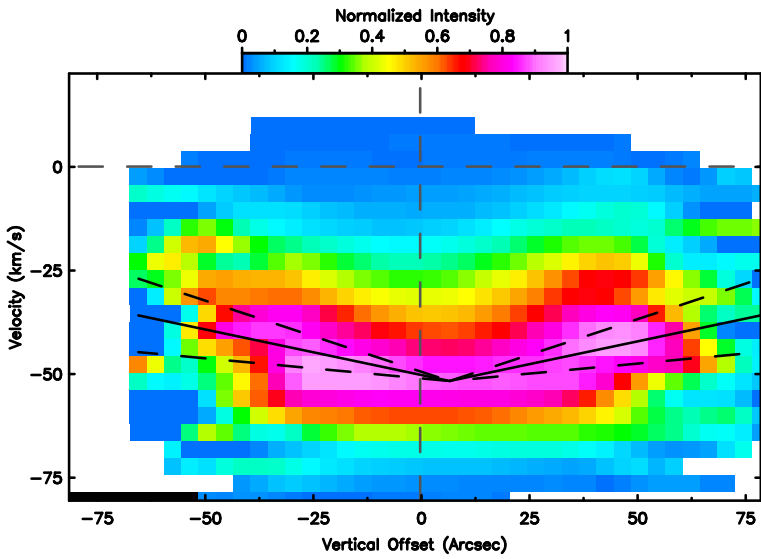


Figure 7.21: Fig. 4.8

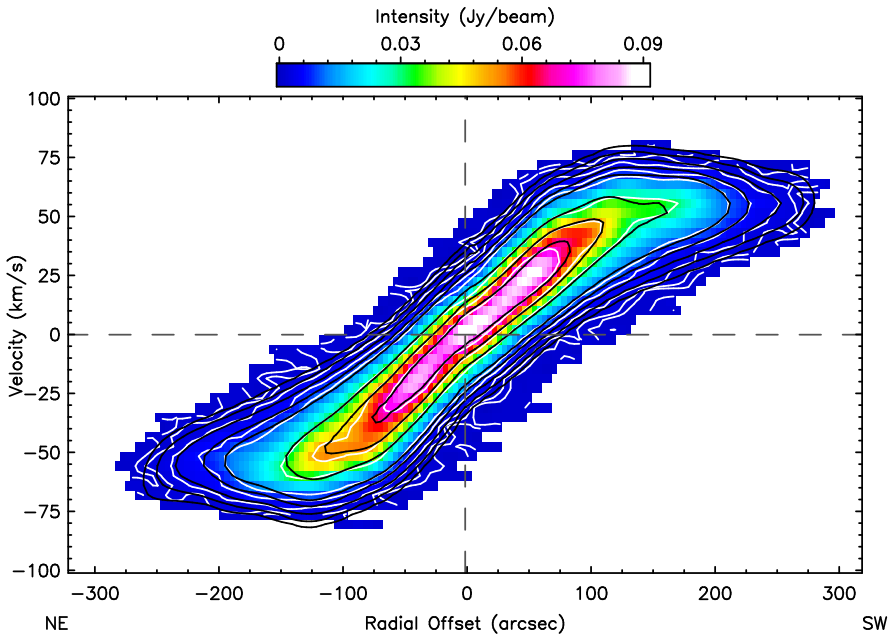


Figure 7.22: Fig. 4.10

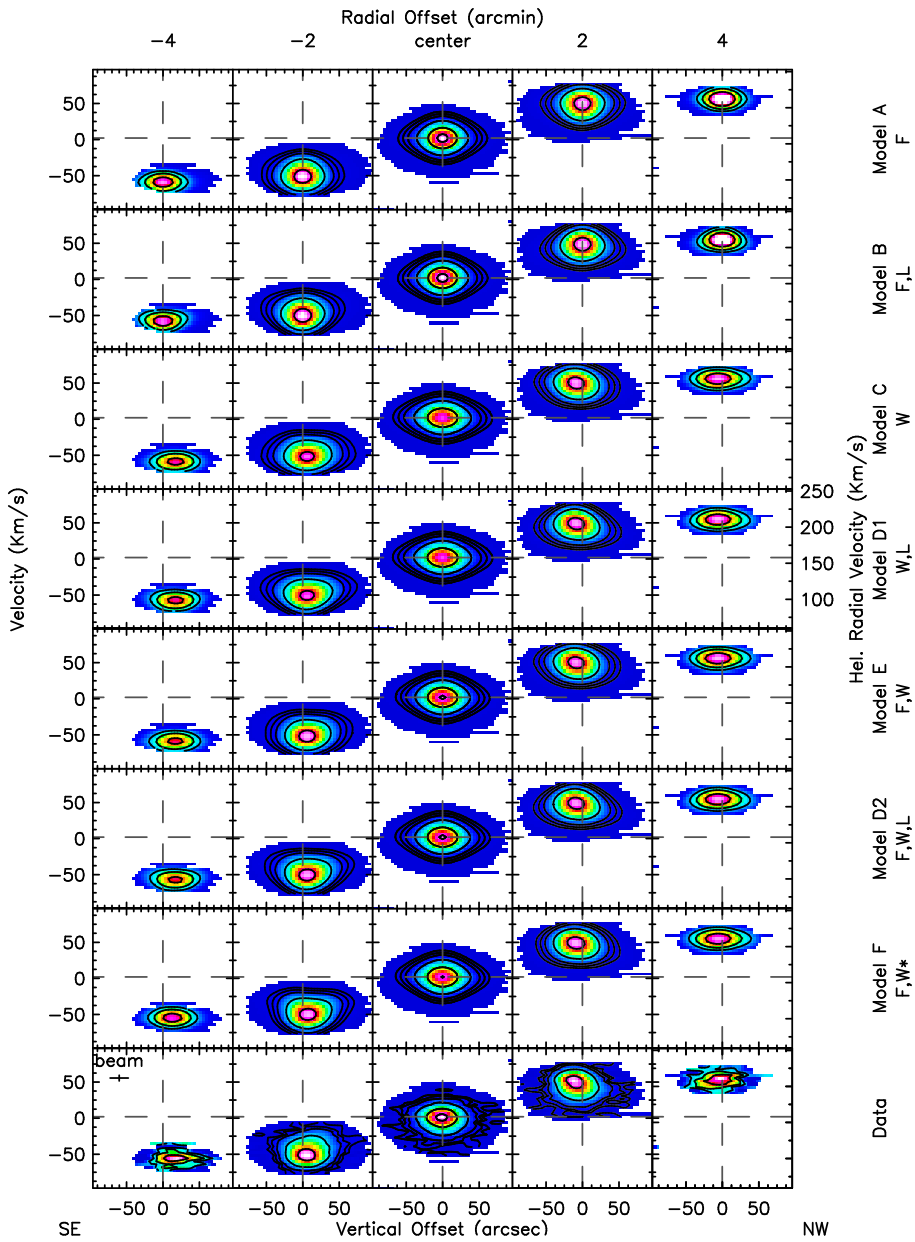


Figure 7.23: Fig. 4.11

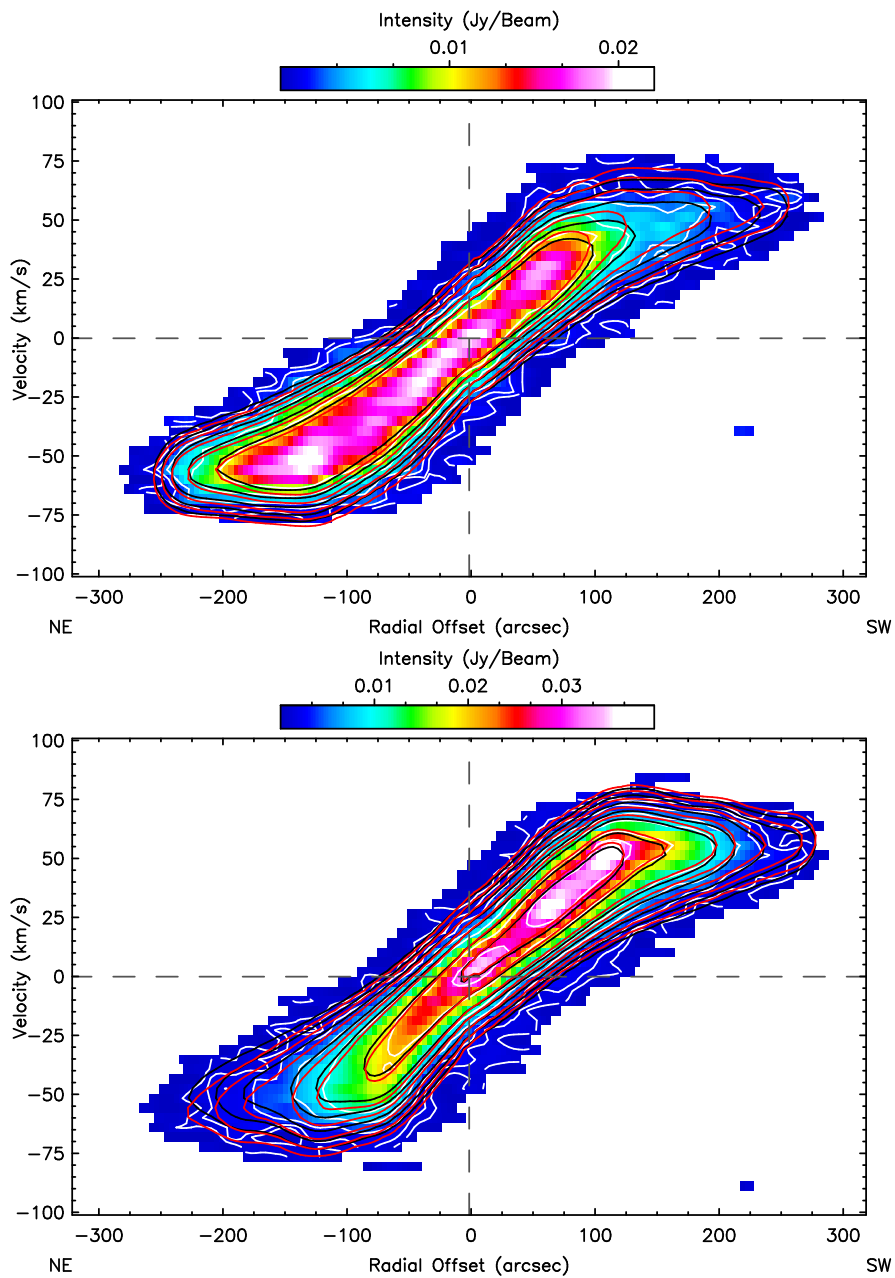


Figure 7.24: Fig. 4.13

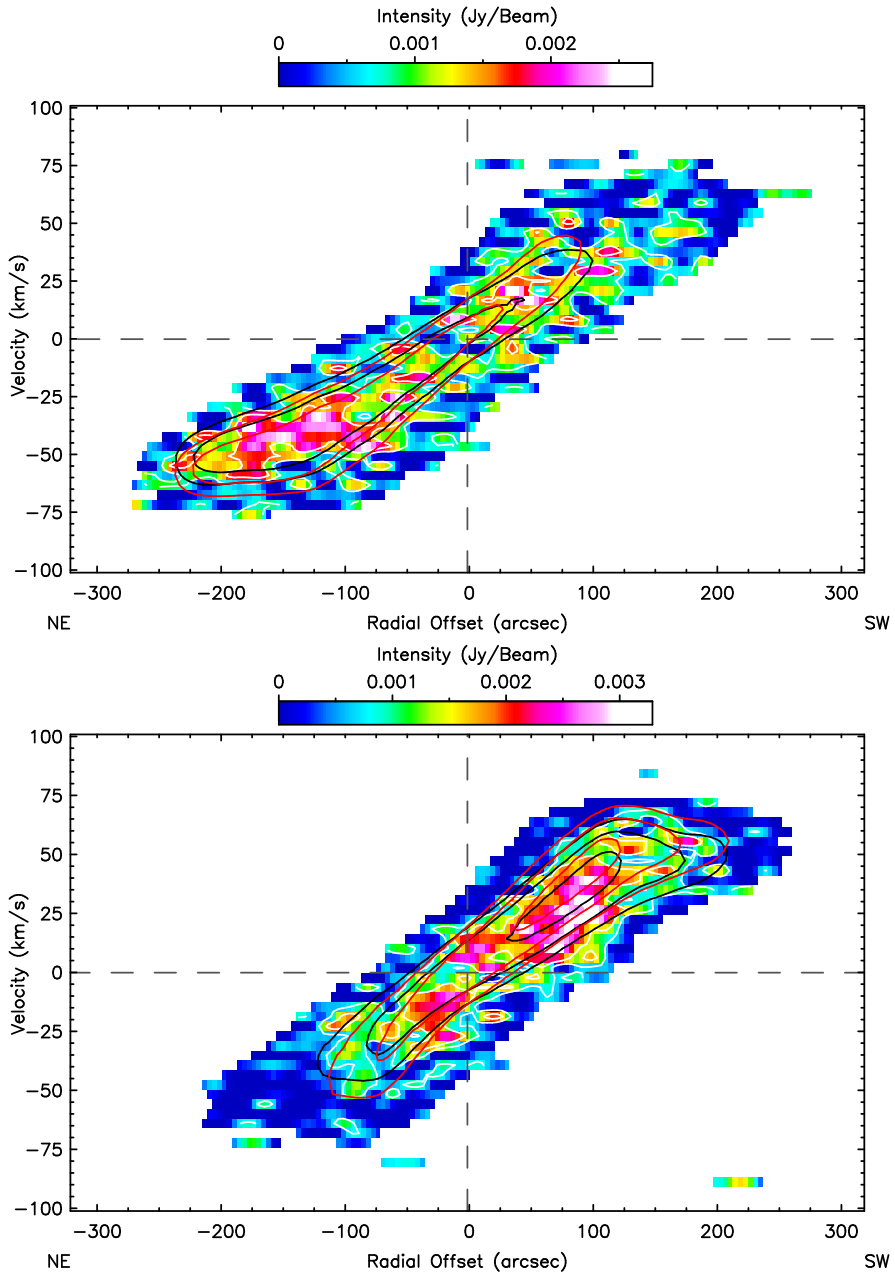


Figure 7.25: Fig. 4.14

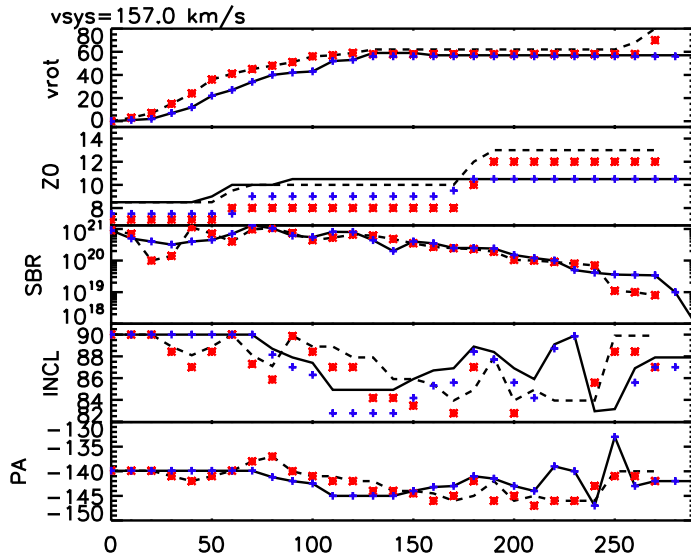


Figure 7.26: Fig. 4.12

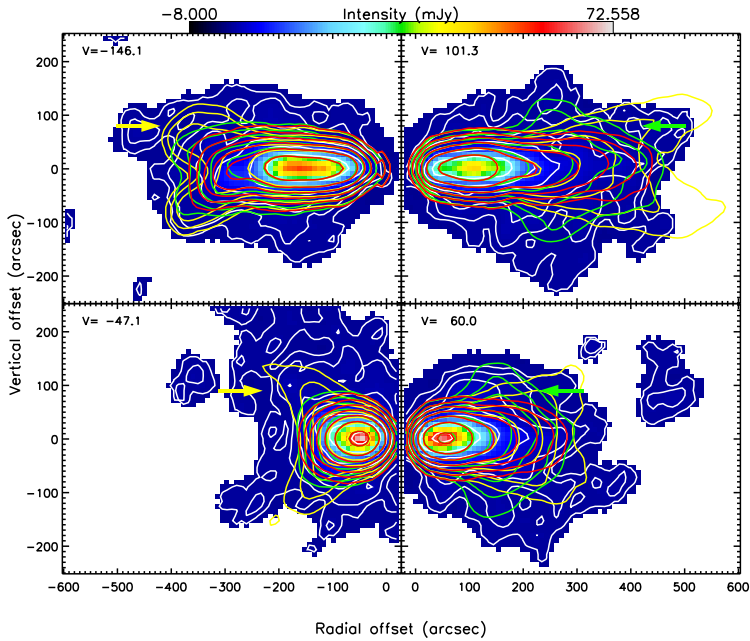


Figure 7.27: Fig. 5.3

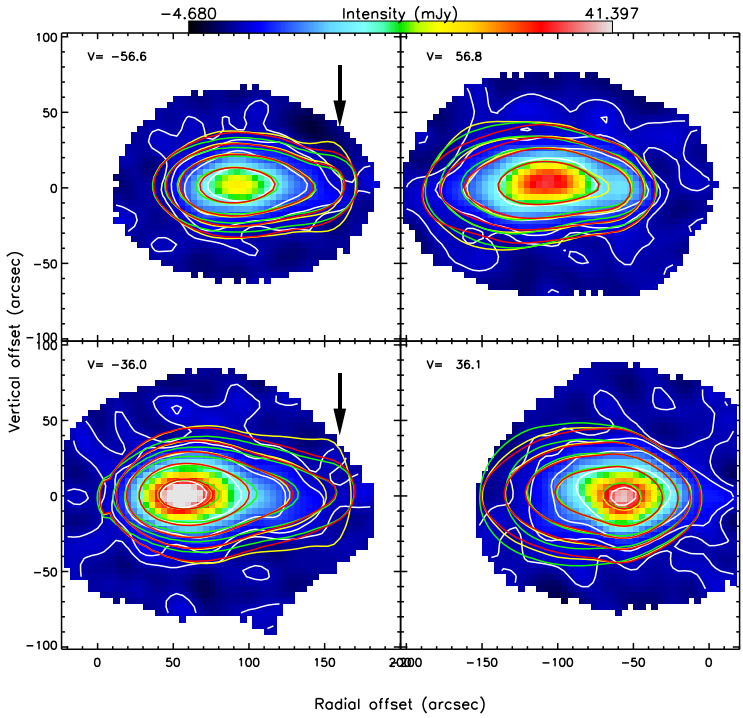


Figure 7.28: Fig. 5.5

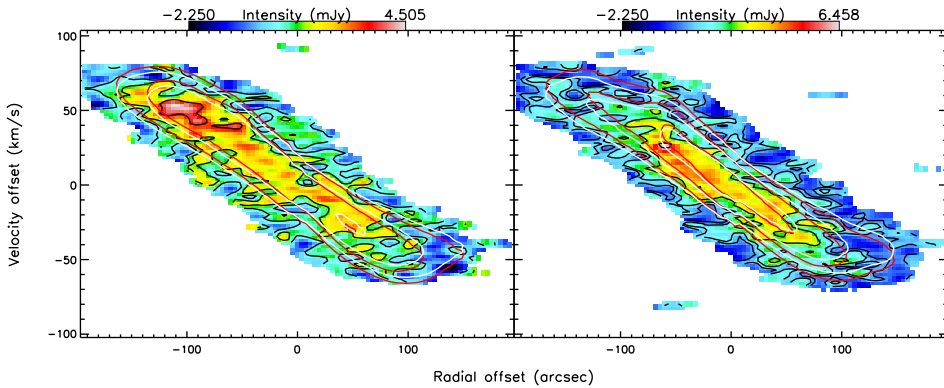


Figure 7.29: Fig. 5.6

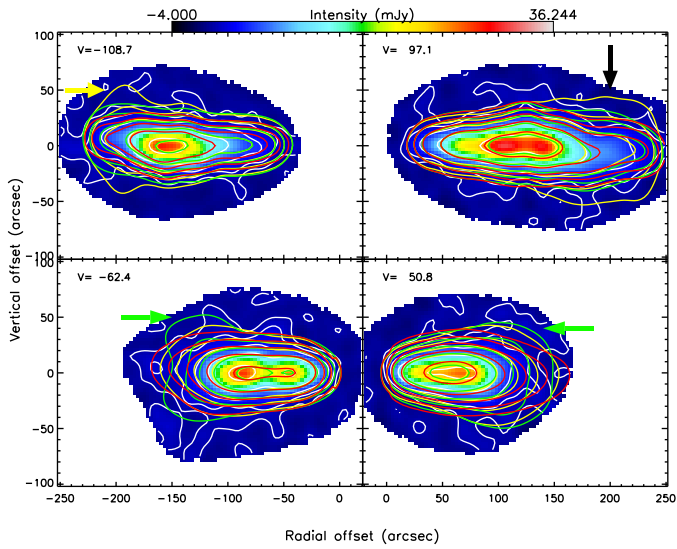


Figure 7.30: Fig. 5.8

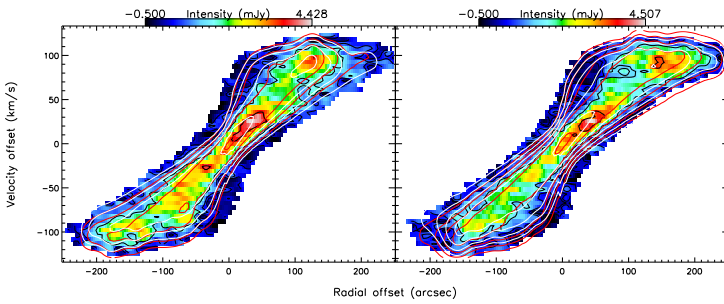


Figure 7.31: Fig. 5.9

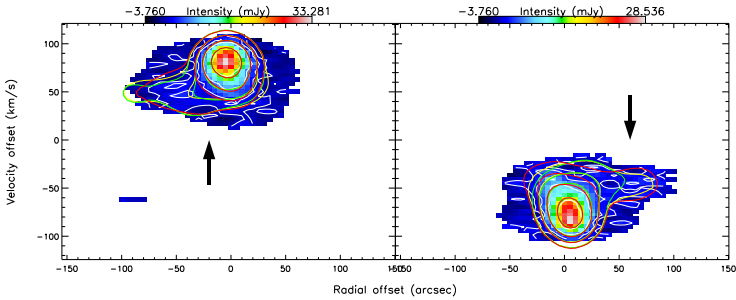


Figure 7.32: Fig. 5.12

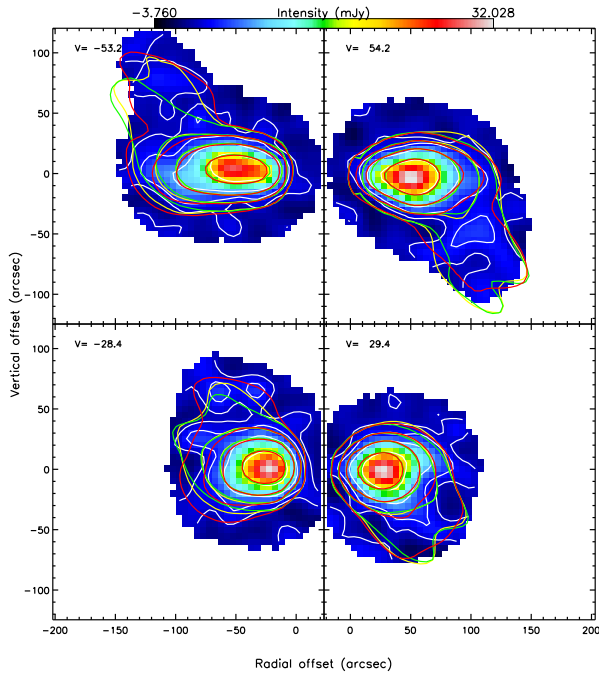


Figure 7.33: Fig. 5.11

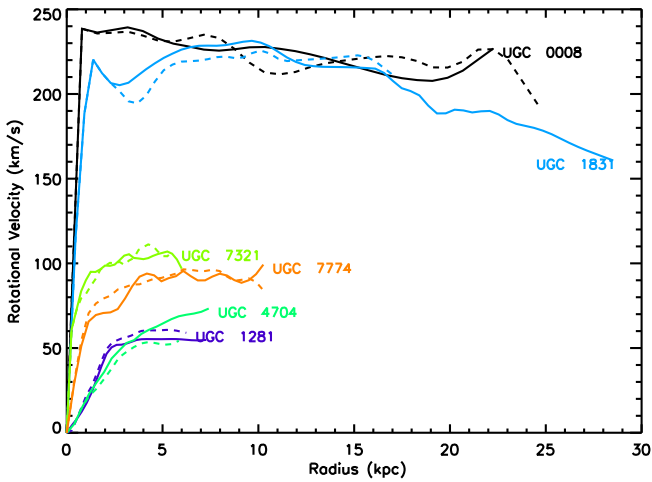
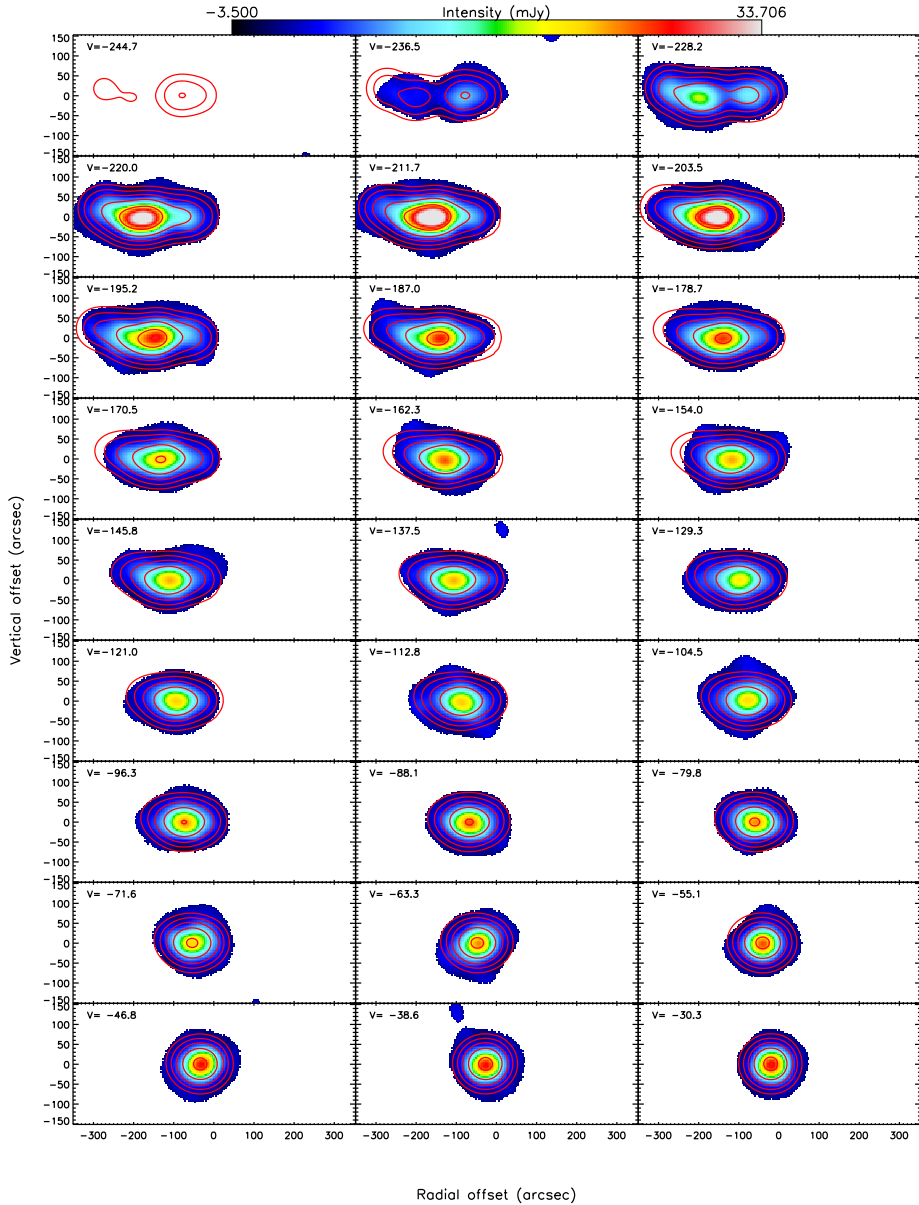


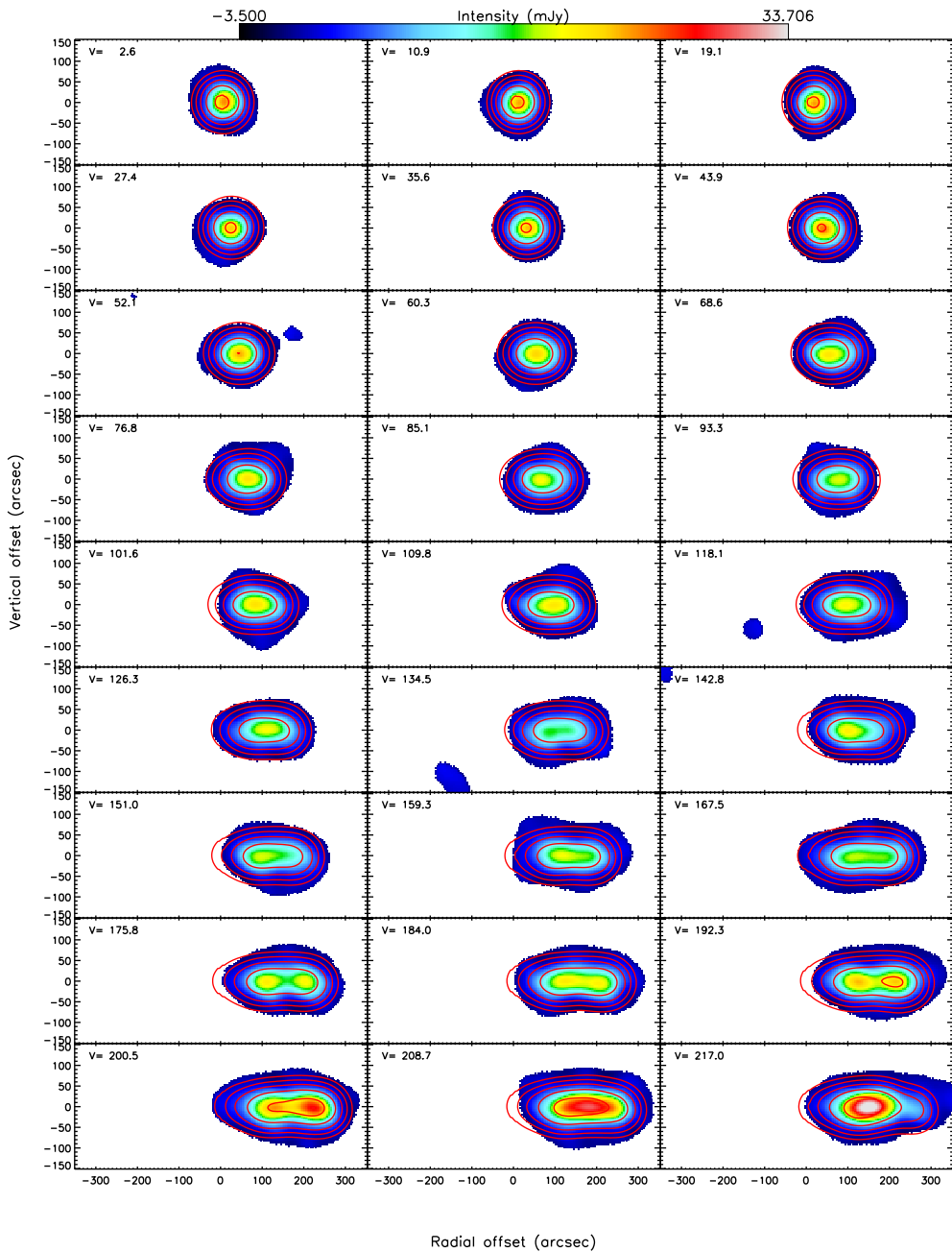
Figure 7.34: Fig. 5.14



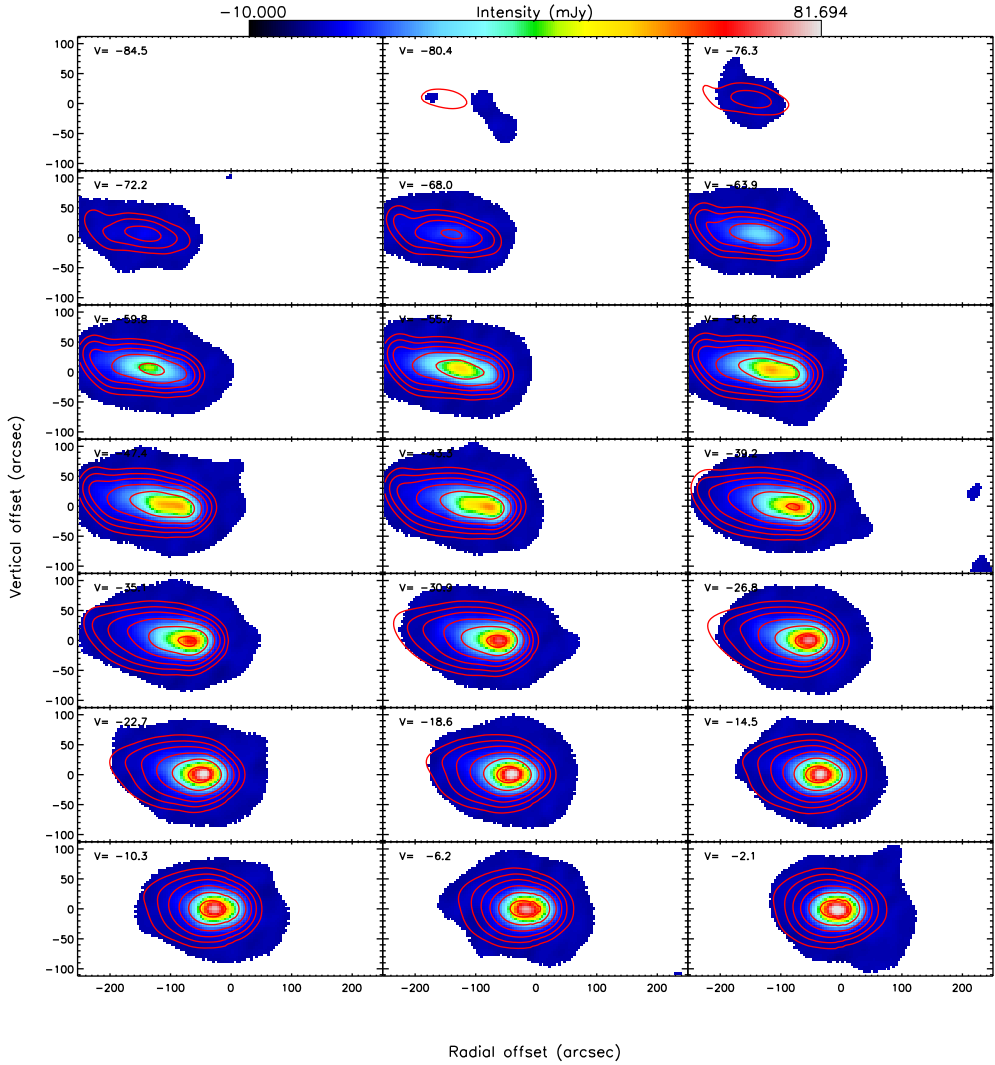
# Channel Maps



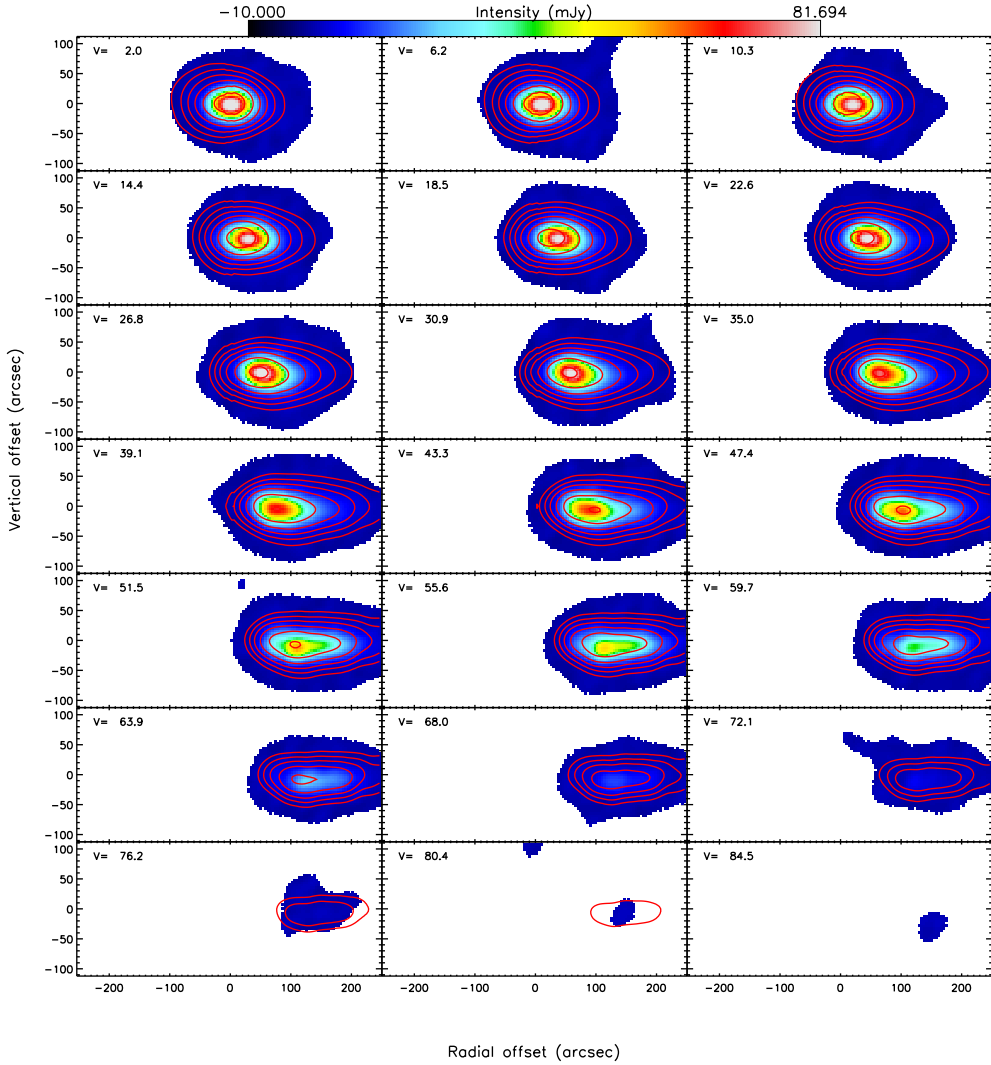
**Figure 7.35:** Channel maps of UGC 0008 overlaid with red contours of the best fit model (Model A, lag=0 km s<sup>-1</sup> kpc<sup>-1</sup>). Contour levels are 1  $\sigma$ , 3  $\sigma$ , 7.5  $\sigma$  18.75  $\sigma$  etc. ( $\sigma = 0.5$  mJy)



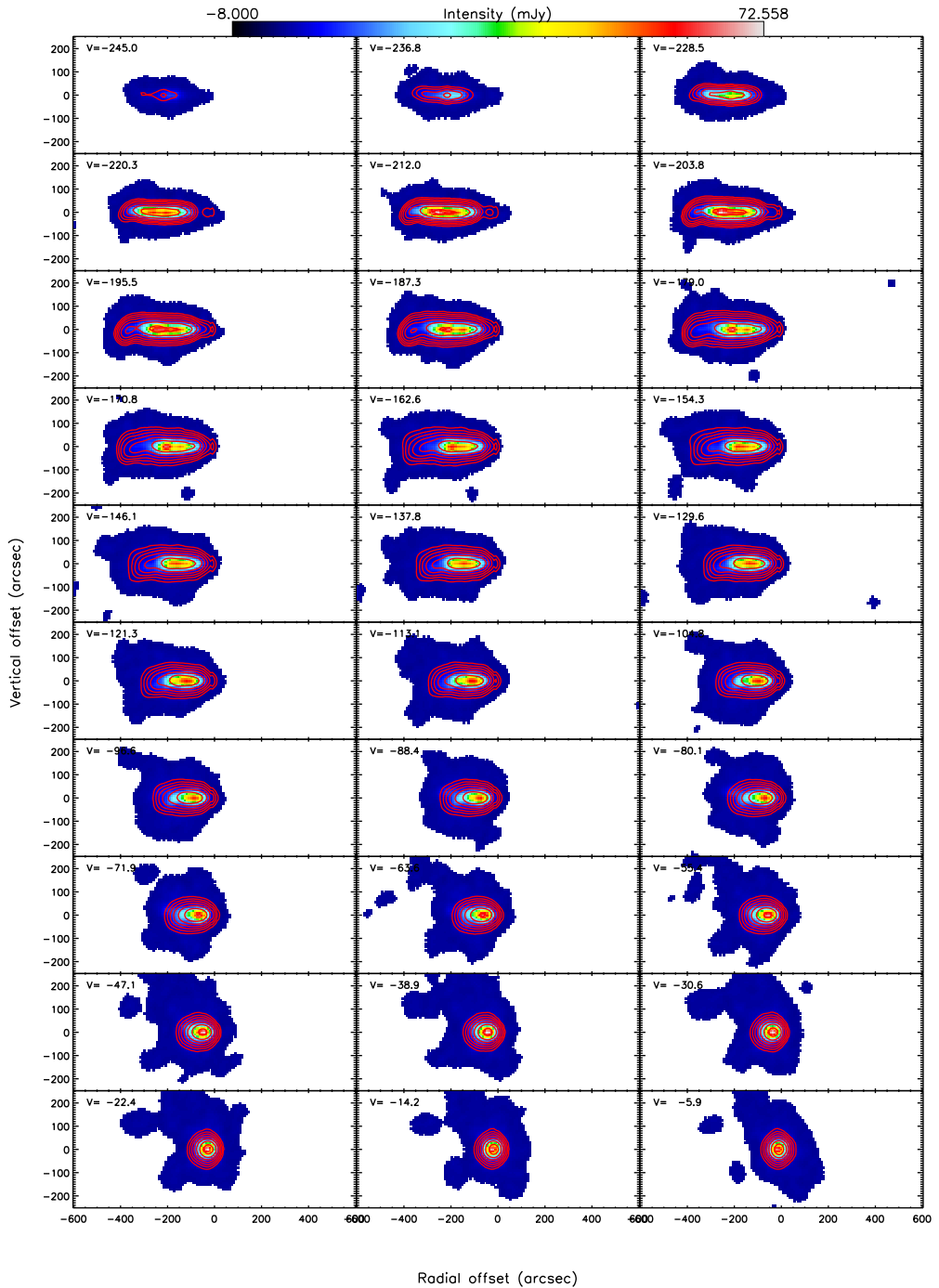
**Figure 7.36:** Channel maps of UGC 0008 overlaid with red contours of the best fit model (Model A,  $\text{lag}=0 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are 1  $\sigma$ , 3  $\sigma$ , 7.5  $\sigma$ , 18.75  $\sigma$  etc. ( $\sigma = 0.5 \text{ mJy}$ )



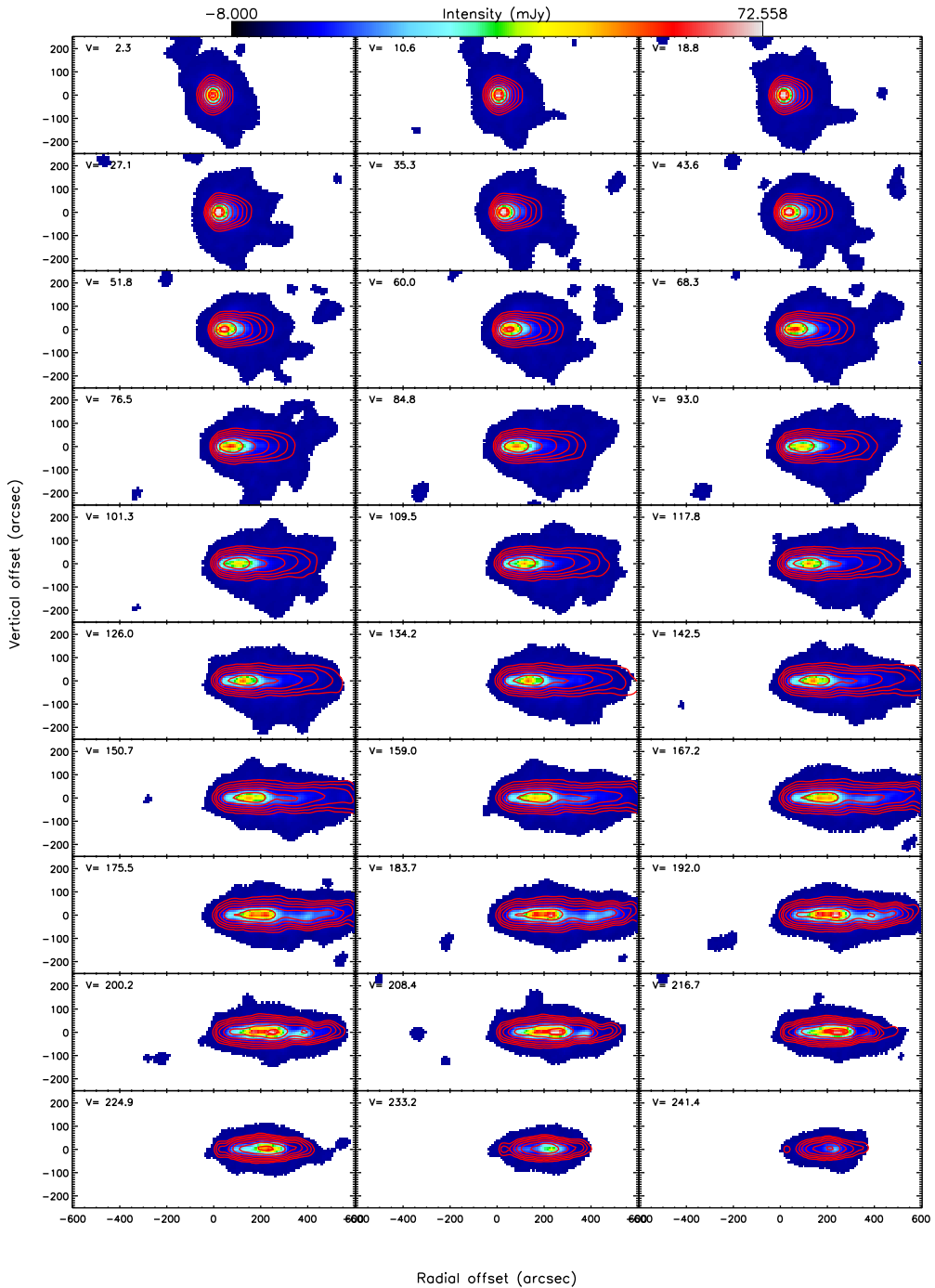
**Figure 7.37:** Channel maps of UGC 1281 overlaid with red contours of the best fit model (Model B,  $\text{lag} = 7.7 \pm 7.4 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$   $18.75 \sigma$  etc. ( $\sigma = 0.5 \text{ mJy}$ )



**Figure 7.38:** Channel maps of UGC 1281 overlaid with red contours of the best fit model (Model B,  $\text{lag} = 7.7 \pm 7.4 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$ ,  $18.75 \sigma$  etc. ( $\sigma = 0.5 \text{ mJy}$ )

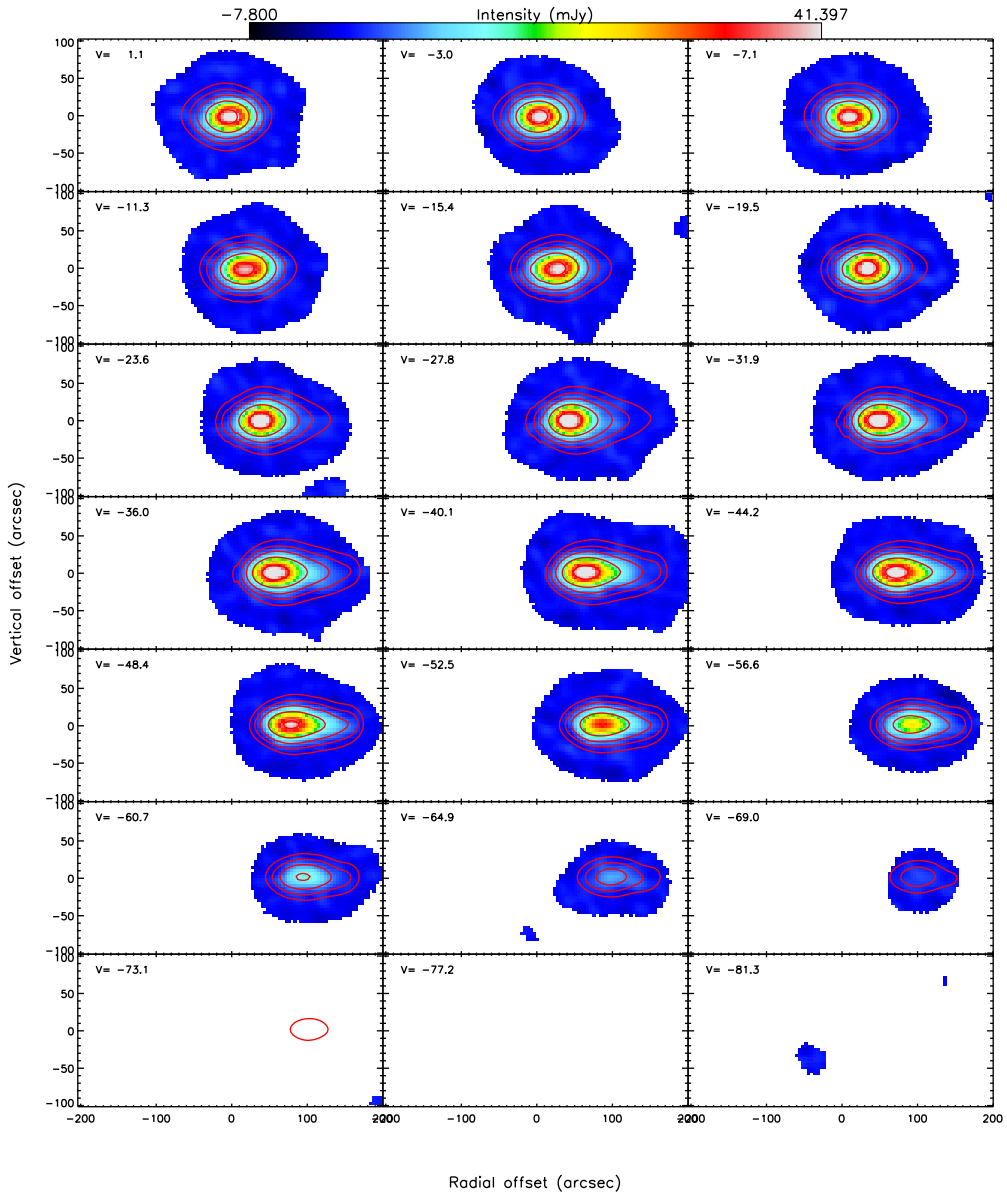


**Figure 7.39:** Channel maps of UGC 1831 overlaid with red contours of the best fit model (Model A,  $\text{lag} = 13.9 \pm 3.0 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$ ,  $18.75 \sigma$  etc. ( $\sigma = 0.2 \text{ mJy}$ )



**Figure 7.40:** Channel maps of UGC 1831 overlaid with red contours of the best fit model (Model A,  $\text{lag} = 13.9 \pm 3.0 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$ ,  $18.75 \sigma$  etc. ( $\sigma = 0.2 \text{ mJy}$ )

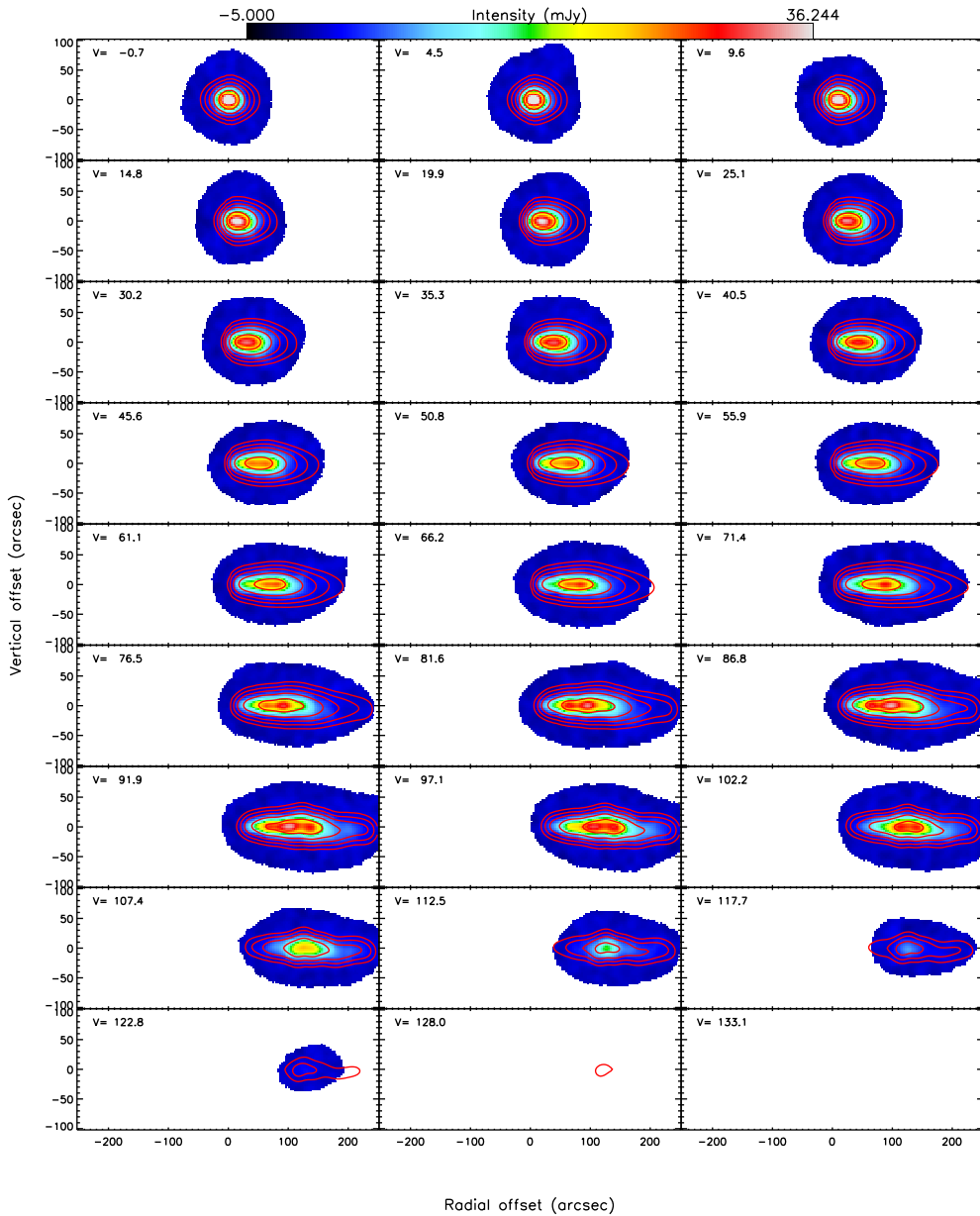




**Figure 7.42:** Channel maps of UGC 4704 overlaid with red contours of the best fit model (Model B,  $\text{lag} = 5.3 \pm 0.8 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$ ,  $18.75 \sigma$  etc. ( $\sigma = 0.78 \text{ mJy}$ )

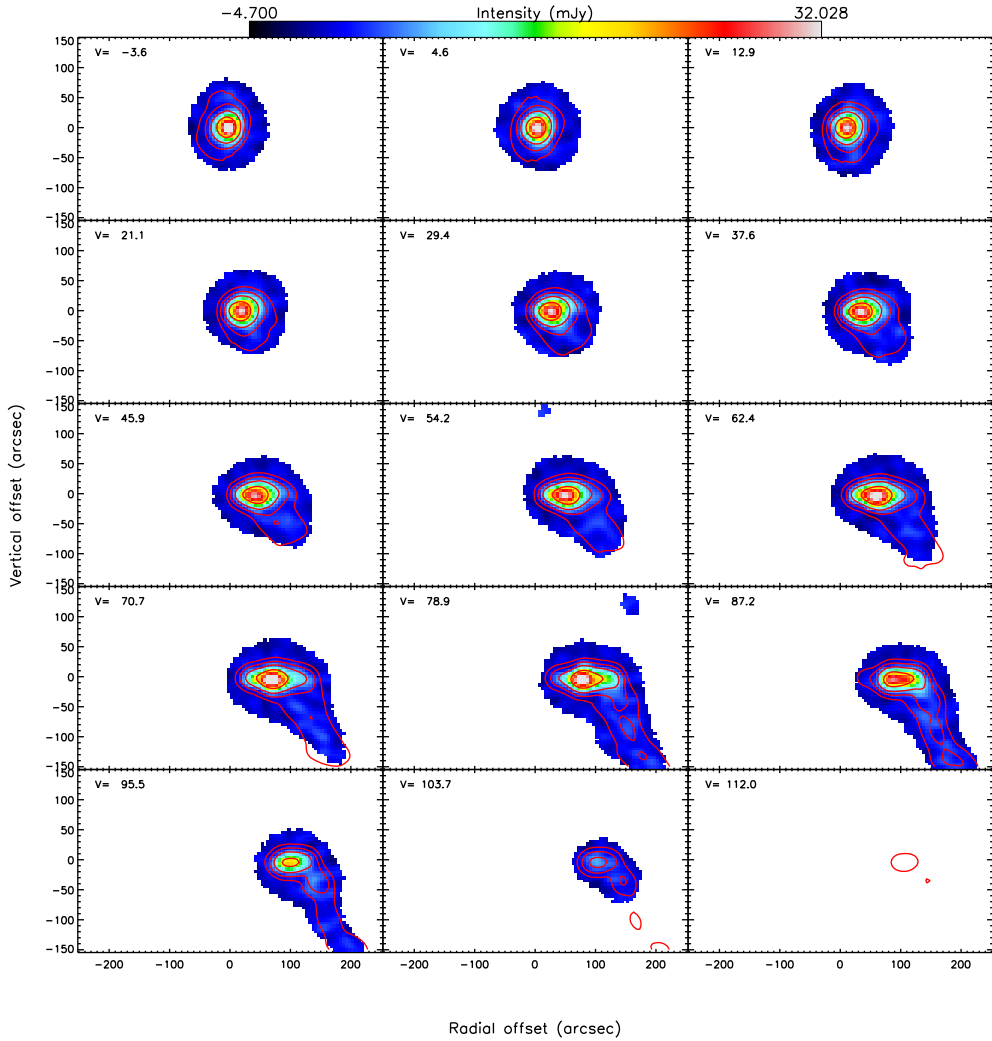






**Figure 7.44:** Channel maps of UGC 7321 overlaid with red contours of the best fit model (Model A,  $\text{lag} = 15.8 \pm 4.4 \text{ km s}^{-1} \text{ kpc}^{-1}$ ). Contour levels are  $1 \sigma$ ,  $3 \sigma$ ,  $7.5 \sigma$ ,  $18.75 \sigma$  etc. ( $\sigma = 0.5 \text{ mJy}$ )





**Figure 7.46:** Channel maps of UGC 7774 overlaid with red contours of the best fit model (Model B, lag=0 km s<sup>-1</sup> kpc<sup>-1</sup>). Contour levels are 1  $\sigma$ , 3  $\sigma$ , 7.5  $\sigma$  18.75  $\sigma$  etc. ( $\sigma = 0.94$  mJy)