Normalized counts

Top-left panel (x-axis: $\chi^2_{\mathrm{r,OPT}}$):
T80=4.95
threshold (M+3σ)OPT = 5.08 (104765 gal. 80.41 %)
T90=10.39
M = 1.90
s = 1.06

Top-right panel (x-axis: $\chi^2_{\mathrm{r,IR}}$):
T80=6.24
threshold (M+3σ)IR = 5.7 (100863 gal. 77.41 %)
T90=9.60
M = 2.24
s = 1.15

Bottom-left panel (x-axis: χ^2_{r}):
T80=4.63
threshold (M+3σ) = 5.05 (106242 gal. 81.54 %)
T90=9.00
M = 2.09
s = 0.99

Bottom-right panel (x-axis: $final\ \chi^2_r$):
T80=2.15
FINAL SAMPLE: 87635 gal. (67.26%)
T90=2.79