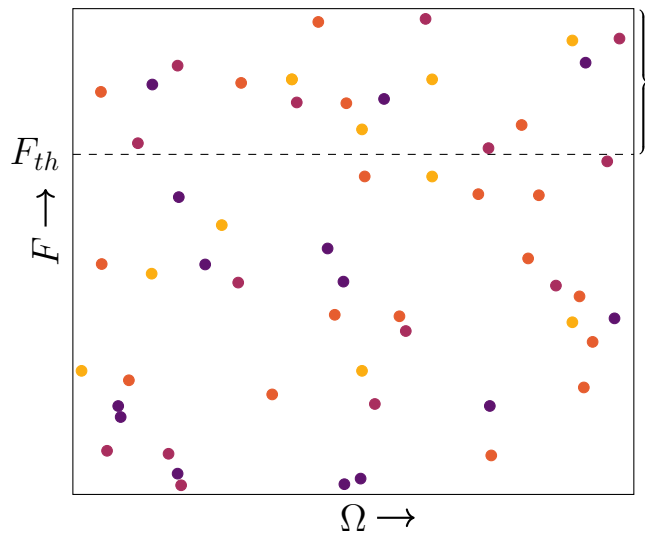


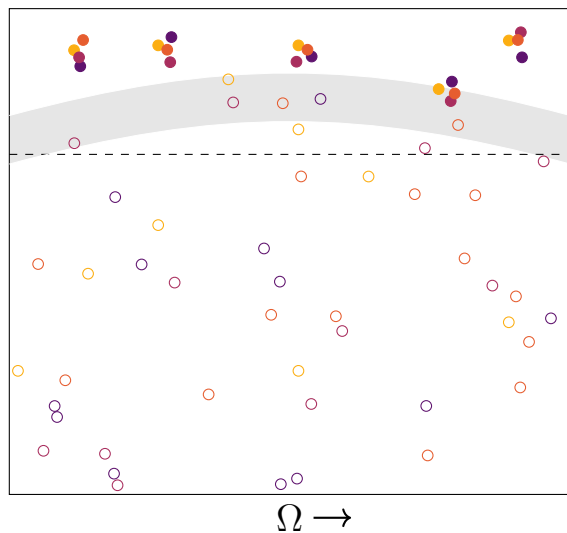
Full simulation model



r_1 : source
detection

r_2 : detection
sensitivity

Truncated simulation model



r_4 : catalog-based
population paramete-
ter inference on de-
tected sources •

r_3 : image-based pop-
ulation parameter
inference on sub-
threshold sources ○

• • • • point sources population realizations