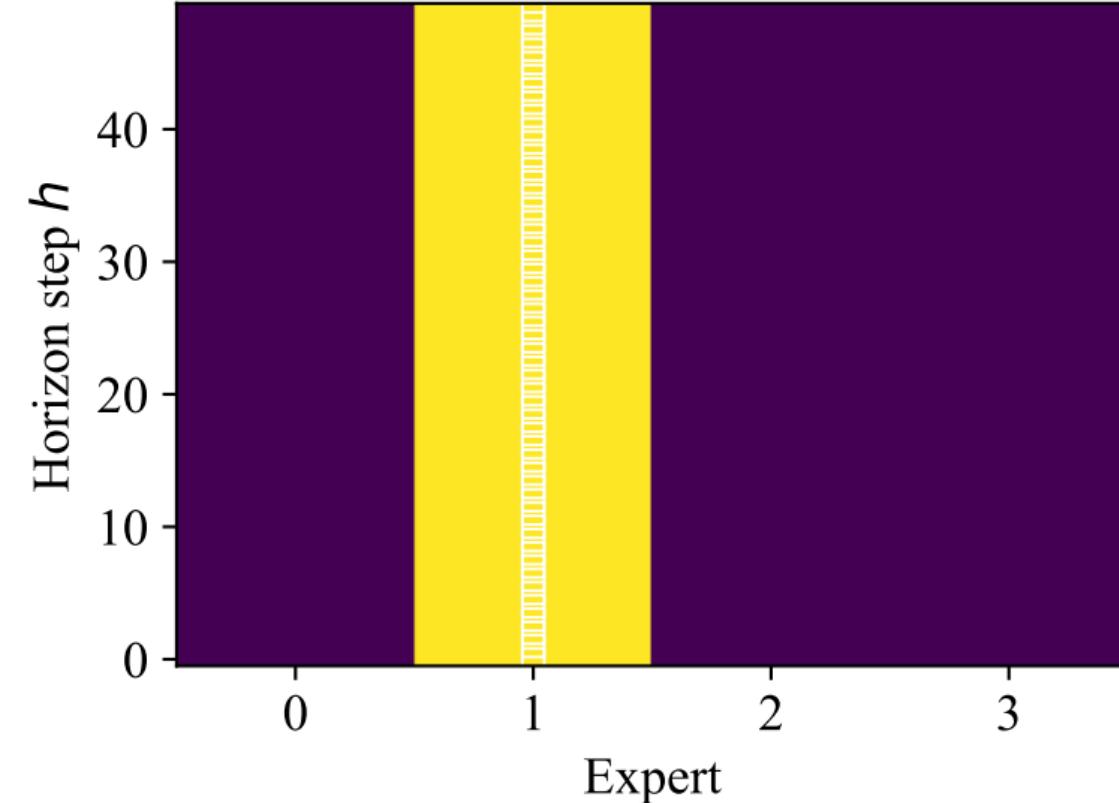Planning demand and relative-thresholded sets