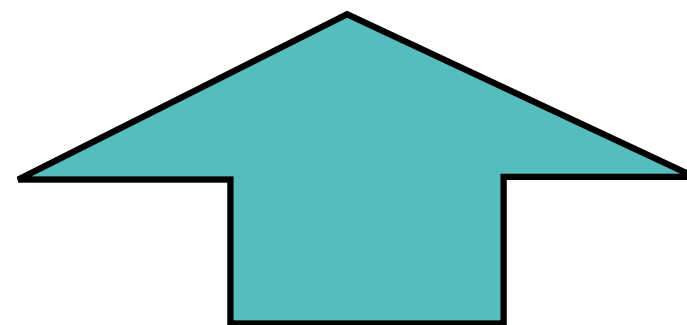
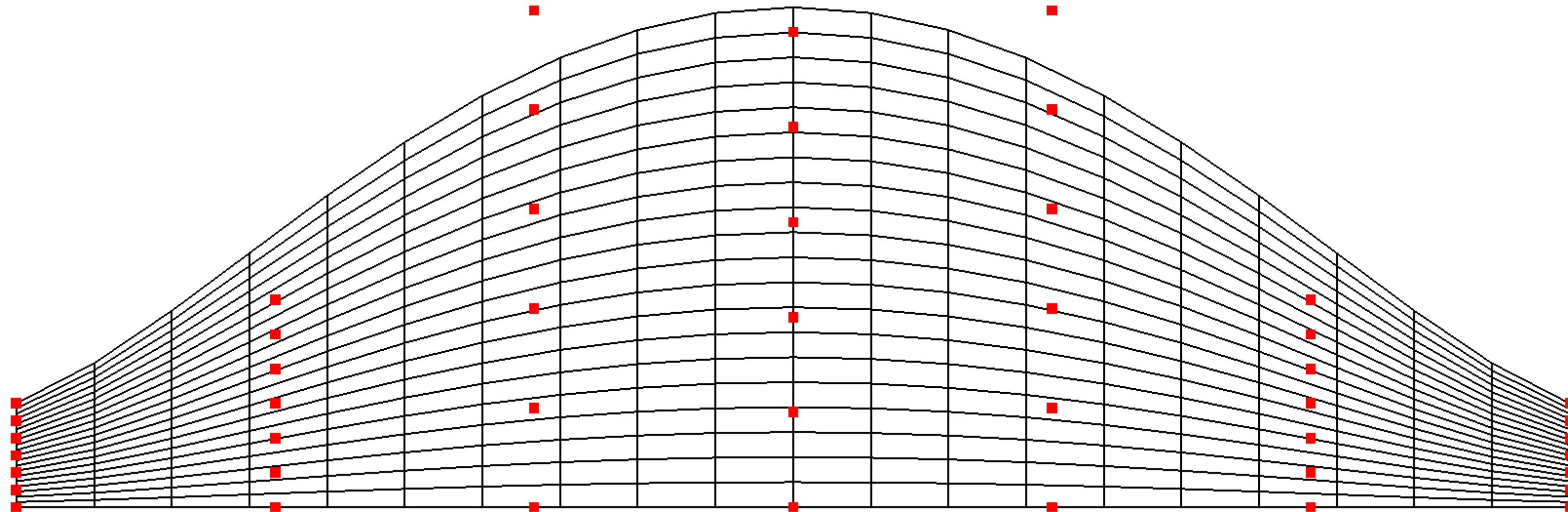


S_{last}

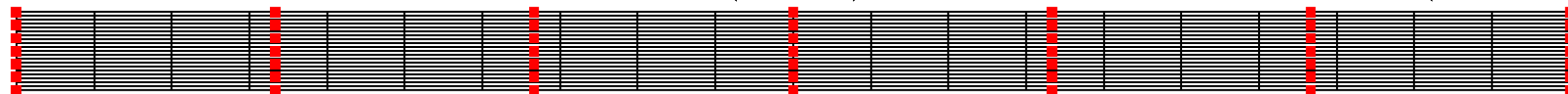
(u_i, v_i)



S_{first}

(u_i, v_i)

$(u = 1, v = 1)$



$(u = 0, v = 0)$