

For large ~~small~~ u .

$P($

$$P(\max_s f(s) > u) \approx E$$

$$P(\max_s f(s) > u) = P(M_u \geq 1)$$

\parallel

$$\approx E M_u$$

$$= P_1$$

$$P_1 + P_2 + \dots$$

$$P_1$$



$$= P_1 + P_2 + \dots$$

$$P_k = P(M_u \geq k)$$

$$E M_u = P_1 + 2P_2 + 3P_3 + \dots$$

At high u , $P_3, P_4 = 0 \dots$

$$\text{So } P(\max_s f(s) > u) = P_1 + P_2$$

$$E M_u = P_1 + 2P_2$$

$$\Rightarrow P_2 = E M_u - P_1$$

$$\text{and } P_1 = E M_u - 2P_2$$

but 7 lattice approximations that need implementing

Note and smooth fields to estimate $E M_u$ well.