PLEON Olaf&McAteer

BEYOND COMMUNICATIONS

E[XIY]

E[XIY]

Outro E[X|Y0] = E[X|Y] (
$$\omega$$
) as

E[X|Y] is a v.v.

IS F[· |Y(ω)] a measure?

Well E[Let $\mu(A) = E[1_A | Y(\omega)]$

$$\mu(\bigcup_{n=1}^{\infty} A_n) = F[AL \bigcup_{n=1}^{\infty} A_n | Y(\omega)]$$

$$= \lim_{n\to\infty} F[\bigcup_{n=1}^{\infty} A_n] | Y(\omega)$$

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Phropound

F[X|Y] (ω) = $\sum_{n=1}^{\infty} F[1(a_n)|Y](\omega)$

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