[ Uses a m Security Photosts Topics a Coremnerey (2) from not on "Topics is Continuous (a) Agent A: out A. in x. out {x} sugget, s). wil Agent B: in A outher x x. in Z out 3A, 2 3 key (3,5). in 3A, x 3 Agent S: in { A , } 23 key (A, S) Skey (B, S) . out { A , x Skey (B, S) . will . 6, Then events (one evat forea. choice of m) only and way (A,S) > ( ) } m ? key (A, S)

out ? A, M? Key (B,S) 1 11, 1 3 Kay (8,5)

A, (n 3 key (A,5) } key (B,5) in } A, ? n } key (A, s) } key (B, s) (an event forea. choice of n)

(d) Q(M) means key (A,S), key (B,S) & M for all output conditions MEM. (= is the submerage veletion) Suppose Q(M) holds at the initial marting. There cannot be an earliest event a violating Q by the following augument, considering the possible forms of y e is an attacker event, with portundation  $M s. \epsilon.$   $key(A,S) \subseteq M$  or  $key(B,S) \subseteq M$  (\*) Cannot be De carriert event violeting Q. etter the output is a name (so does not violete a) (A) M) Key (B,S) case by control precedence e depends a

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