single round, n-party Keg zgreement besed on multi-JA WIBE coalition techniques (Bonch-Boyen mTA WIBE)

Parameters g,, u, ver G, Hosh HIP > 2/pz of Con X Go of Go n pratics; TA, TA, ..., TAn V/n public keys · t,, t,,..., tn V/n private keys 5,, 5, ..., 5~ such that 5! = 51 & t = g,

1G1=1G2=P Note: TA: chosses EacH (i) = \$ / 7/ and publishes d:=(5:(LV)), g. [ij TA: also chooses 2:, b; <4 //2/ cipher+=x+ and publishes  $C_{ij} = g^{bi}$ C, = (h, vb:) Cis = e(g,,g) · c(Tr,,g)

combines the dij coclition-competible decryption key; S;= (5; TIs(uu")); TTg(") Si= (gr (nv Herra;)) 2 m; 2 m;) Ezch TA; may then dectypt ezch ciphertext individually and combine the messages under mezover c(g, ss) - OR decrypt the product of the ciphertexts to get the same reach using only two pairing