

3	Lemma 5:3: If I is the Complete Communi.
	Contrar pattern them (all triples (i, i, b) ∈ 1
	than Level (i, b) = k + i, + k
	Algorithm for Consensus:
	All processes have L: Level verter
	V. Value set (vertu of
	input vals of all.)
	Fround (Special prous) chooses a
(reforem	From 1 (Special proces) chooses a symmetry in range 1.90
d were	
Ovarza	(key, L&V) are sent to all prounds
	at every round.
	En When a mensage is received
	update these 3 variables.
	Run these steps for a rounds.
	At the end.
	Roun i devides on 1 if all
	input values are I and
	Level: (2) >, key.
	groun i decides or a otherwise.
Correct	
	② Validity.
	3 Agreement.

4	Pr [Some prouns decides on o and others decide on 17 = 1
	decide on 17 < 1
	X
	disagreement:
	$ \text{level}_{i}(k) - \text{level}_{j}(k) \leq 1 + i, \forall j$, $\forall k \leq 9$
	11 4 . 9
	, TREN
	I happens when key = max { blavel, (r)}
	replaced in the series of the
	Pr[key = max love] = 1
	They - many street - I
	1 00 × 0
	Level round. Arry & - Sound argue 17hron for
	randumized consensus of the han probability
	Level round: Any 92-round algorithm for randwonized Consensus affection for blanch problem for probability of disagreent > 1

poli 6. Consensus Despite Proces failures. (fail stop, Completely Connected

Bynchronous networks, all links

Connecting non-faulty processes don't

fail) f = max # of processes that can fail