

24-2/ ETM = { < M > M ETM and L(m) = 03	A CONTRACTOR CONTRACTO
ATM Em ETM C=7 3f: < M, w, 7 -> < Mz7	And the second s
wie L(Mi) ie Miacceph m iff Mz	is empty
Mz (x) = simulate Mi on wi	
if accepts, reject x	
o.w., accept x	
ALLow = E < M > M C T M and 皆 L (M) = E* 3	
Mr(x) == simulate Mi on w,	
ifaccepts, accepts	
O.W. rejectx	
REGIM = { <m> METH and L(M) EREG }</m>	
< m, , w, > > < mz> sit M, accs w, iff L(Mz) 6	- REG
M2(x):= simulate M, on w.	
if accepts, "be regular" accept x	
W.w. "not be regular" test if x + on 10	, aleptoin. resc
	•
CFL-m & Eo	
Eo TM & EO "hot be Eo" ATM	A CONTRACTOR OF THE CONTRACTOR
- ressentially, all questions about a TM are undecidab	e
EQ+m = 2 < M, , Mz >) L(mi) = L(mz) }	The state of the s
Erm <m <m1,="" eqtm="" m2=""> > <ms></ms></m>	
st-L(M)=L(M2), ff L(M3) is &	
Erm (XX) = EQTM (XX, Ø)	

24-3/	Linear-Bounded Automata (LBAs)
	- TMs w/ a limited tape
	Motagnion'
	- defr works for arbitrary
	LOA KA (F. S.A T.A CI DZ CI DZ CI DZ
	LBA = &Q, E, Tgo, S: QxT = QxTx EL, R3, 8a; gr)
	semanties almost same - no nie for adding blanks
	τΜ ω ε L (m) ; ff α [q;]ν => ω α [q;]νω [qo]ν => " α [qa]ν
	LBAS no vie like Hat) w[80] ww => u[80]v
ngenemmentels beforem at til de en skylet og e	All examples in So, were all LBAS
	WHU ADEA, ACEG, EDEA, ECEC, DEACLBA
	ONNON
lattled (analysis must freezick) (security of the statement of the statement of the statement of the statement	
	ALBA E % E LBA.
	ulgo]nu => walgi]vu => u[gz]abnu
eris Saya kanaman kang kateriana di Manaman di Anaman na ping katerian di Anaman na ping kateriana di Anaman n	set of LBA configurations in finite
	$TM config = \Pi^{*} \times Q \times \Pi^{*}$ $LBA config = \Pi^{*} \times Q \times \Gamma^{*} \text{where } n+m = w + 2$
	The out of the contract of the
ata ikan penaraman dan dan penaran penaran penaran penaran pilipini penjelapi penaran karan karan karan karan Penaran penaran karan penaran	ALBA (LM, W7) := simulate Mon w for x steps w +2
amicion de Principale de la compresión esta contracta con entre entre entre entre entre entre entre entre entre	iface => acc x= y
	$ \frac{1}{1} + acc \Rightarrow acc \qquad x = 1 $ $ \frac{1}{1} + \frac$
	mentanting (Manufacturing Control of Control

24-4/ ELBA & 20 ELDA = E < M> | MELBA 1 L(m) = Ø } 7 ATM EM ELBA f: (MI, WI) -> < MZ> Mi accepts w, iff L(Mz) = & $M_z(x) := \text{check } H_{q} + x = \langle c_0 \rangle \langle c_1 \rangle \langle c_2 \rangle \dots \langle c_n \rangle$ site co = [80 from Mi] wi cn = u [ga from M.] v and \ti. ci => citi according TM rules X is "evidence that Mc accepts wi" x doesn't exist (ie L(MZ) = 0) "M, doesn't accept wi" AK Son ALLCIEG Wso can represent TM histories