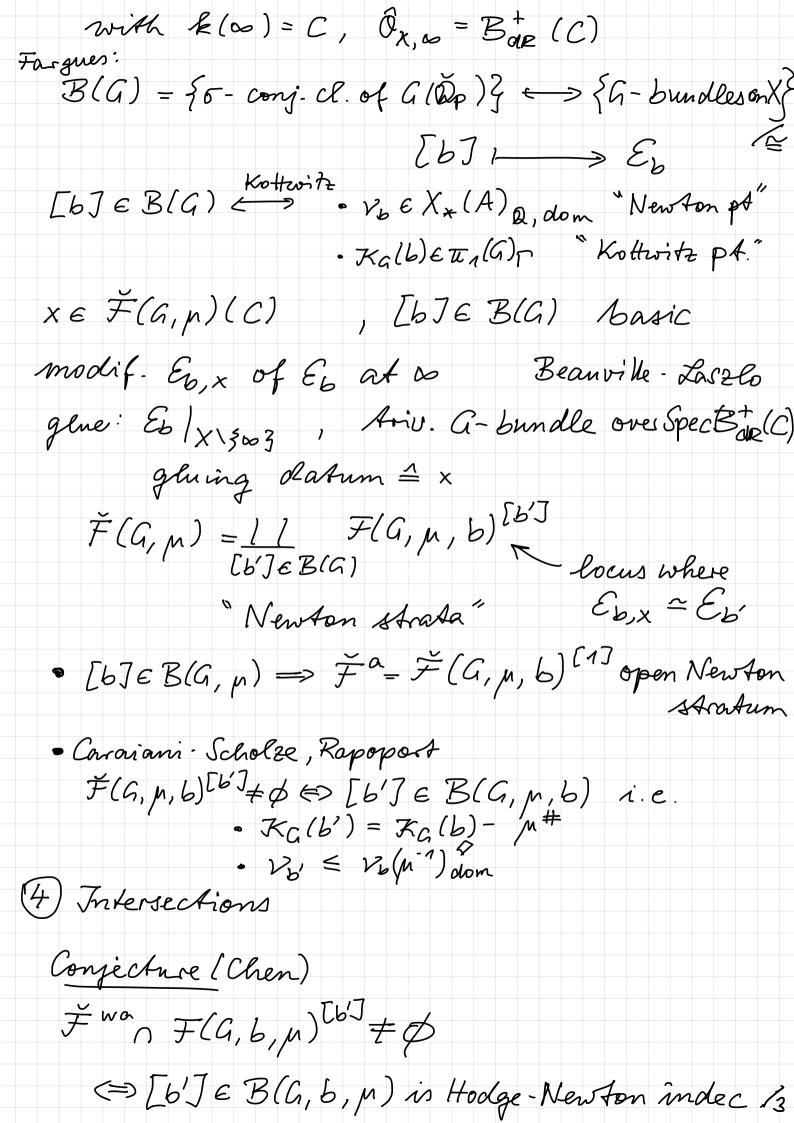
Eva Viehma	inn ITU M	unich)			
Newton	strata.	in the	weakly	admissible	locus
	a duriss				
		raps f	les p-div	. 3p	
la bi					
X : p	- div. g	P. / Fp			
N = ID	(X) _Ž	Cor. Z	riend. Cry	st. of X	
	Ninn N =	hA X			
KIO,	OK				
	adic per				
$\pi: \int (X)$	(9,) X	p-di	v gp/OK → X © OK/p	} -> Gr. (1	()(K)
C	f:X	a QI	$\rightarrow X \otimes U_{\kappa/\rho}$	∫ → Grc(1	- Codim X
		(X,p)		$\mathbb{D}(X)_{\kappa}$	SNOK
0 -				\int	, ; l
CM: J	mage of	n.		Lie (X ^v)	ø K
General	: Gre	ductiv	e group o	ver Qp	
b€	G (Dp)	, µ a	minuscu	le cochas. E	37. [b] EB(G)
	1	before:	m = (1,	.,1,0,	(D)
				rigid an.	
G				iased with	
	\mathcal{F}	(G, M)	= 4/Pm		4

 $\pi: \tilde{\mathcal{M}}(G, b, \mu) \longrightarrow \tilde{\mathcal{F}}(G, \mu) = \tilde{\mathcal{F}}$ local Shim. vas étale morph. of rigid an. sp.
im $\pi = : \tilde{\mathcal{F}}^{\alpha}: admissible locus$ Ex:(a) G = GLn, p = (1,0,...,0), b basic=> $F^{\alpha} = F(G,p) = IP^{n-1}$ (b) G = Day, p = (1,0--,0), b basic $\breve{\mathcal{T}}^{a} = 52 = \mathbb{P}^{n-1} \setminus \bigcup \mathcal{H} \subseteq \breve{\mathcal{T}}(G, \mu) = \mathbb{P}^{n-1}$ $\begin{array}{c}
\mathsf{H}: Q_{p} - rad \\
\mathsf{hyperplane}
\end{array}$ (2) The weakly adm. locus Fac Fwa cF Fwa: Weakly adm. locus
open open -> remove from F a profinite union of Franslates of Schubert vas. Ex: (a), (b) above: $F^a = F^{wa}$ Colmez-Fontaine: K/Op finite => Fa(K) = Fwa(K) Hall: not equal in gen. Chen-Fargues-Shen: $F^a = \tilde{F}^{wa} (=)$ (G, p) is fully HN-decomposable (3) Newton strata Clap alg. closed, complete, Cb: its tilt

=> Farques - Fontaine curve X > 00

12



G = GLn m=(1,..,1,0,...0) [b/= 1, 1 holom = Vb Modom Known cases: "=>" [Chen-Fargues-Shen] "= [CFS, Chen] for minimal non-basic elements of B(G, µ, b) [Chen] some other "small"[b'], G=GLn Thm (V) The conjecture holds for G-Gla, 16]=[1] Ideas for the proof: For GL, we have [Hansen; Birkbeck et. al.] $F(G, \mu, b)^{[b']} = \bigcup F(G, \mu, b)^{[b']}$ [b''] = [b''] = [b']=> enough to consider the conj. for the unique maximal HN- indec. (6'JeB(G, y,b) basic b'

Assume $x \in \mathcal{F}(G, \mu, b)^{Cb} \max^{J} not w.a.$ => reduction (Eb,x)p coming from red of b with "positive slope pol" = EChen 7 (Eb,x) + × PM => 5- conj. class for M 2m: New ton pt. Modom = (VM)G-dom = Vbinax => 2 cases : (Vm) G-dom bing or HN-dec. > 17N-decomposition ···· => cannot occur => VM = V6'max CFS XEPWP/PMCG/PM $W = S_i$ dim: n-1dim $\tilde{\mathcal{F}}(G, \mu, b)$ [b'max] = $\langle 2g, M-V_{b'max} \rangle = n$ 15