Minsky@Blyth: Complexity in surfaces and 3-manifolds, 3 March-12-14 4:03 PM Jul Namazi, B Today: Cuffing along compressible surfaces. j/ W/ Namazi, Brock, Souto. Motivation: M=HtUH- Ht: handlobodies "Heagand splitting" N Very conpressible? Good news: Heegaard splittings always wist Bud news: There are too many of them. Fix genus g, pick gluing MAP Y: 2Ht -> 2H. DOF V: Z -> Z is pseudo-Anosov if it is irreducible: Fixes no Finite allection of isotopy classes of curves. Thm My:= Zx(0,1]/(x,0)~(Y/x),1) is hyperbolic iff Y is pseudo-Anosov Let My be the Z-cover of My. Given YA, it is also hyperbolic. The Let Ht, Z be Fixed, V: Z ? Le (neuds definition) (A. Let Nm = Ht VymH.

For large m, Nm is hyporbolic. Monover, Nom has a "model metric" metric Ht HA MM, M which is k-biliph isomorphic to the hyportolic metric. (uniformly in m) Thurston's Louble-limit Theorem. Let Zy be Fixed i $f_1: TT, Z_g \longrightarrow PSL(2, C)$ Liscrete, FnithFul, Ecurves & 1Pn on Zg isotopy classis of simple closed s.t. * $l(P_n(x_n)), l(P_n(B_n))$ bounded. * <n ->>> a lamination on Z $\beta_n \longrightarrow \beta_n -11$ such that Lung Linds Z: Z QUN) is a Union of Jisks. Then py has a subsequence that converges up to conjugacy in PSL(2,C) Laninations: Folinted by geodesies.