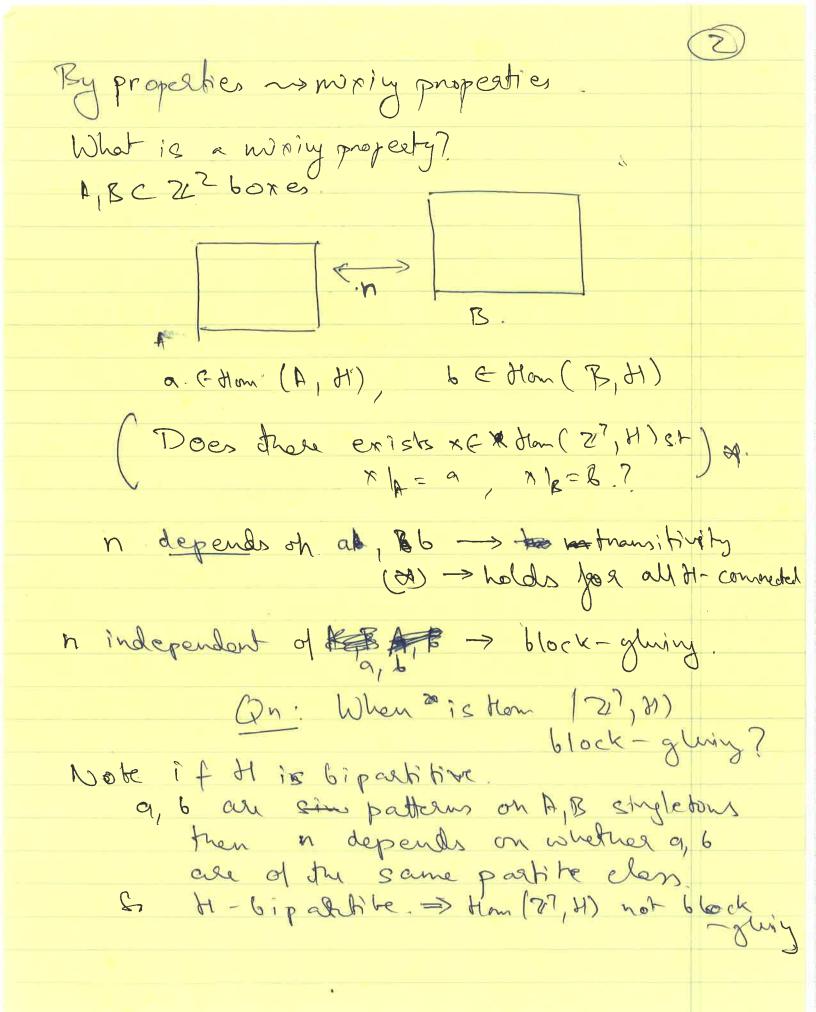
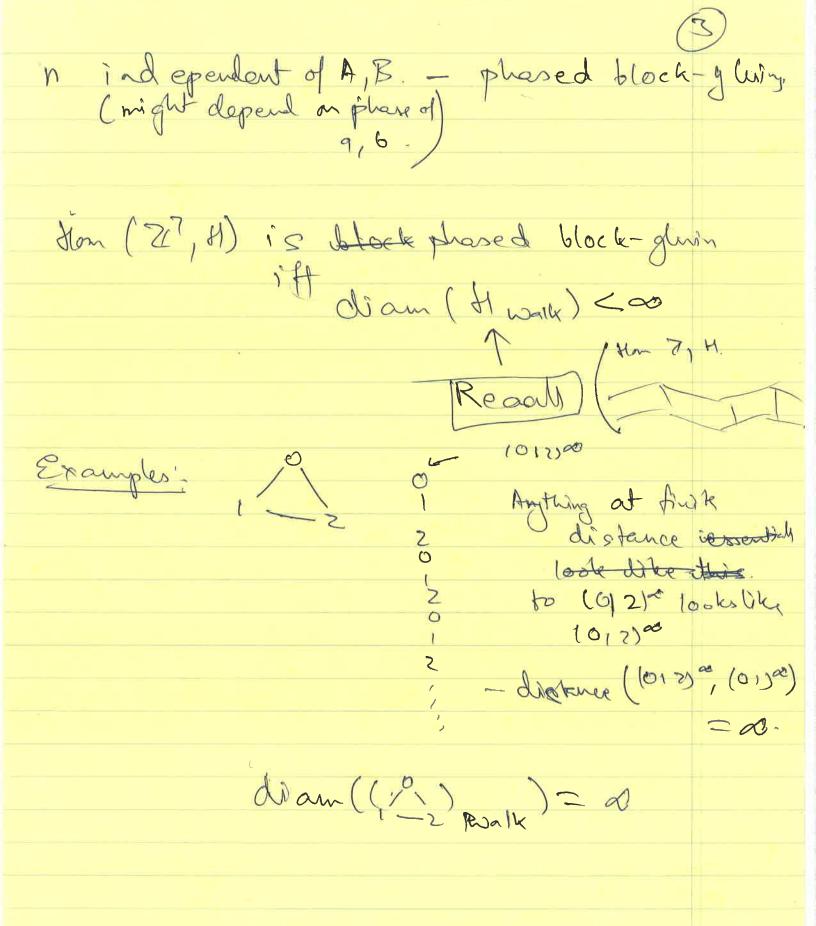
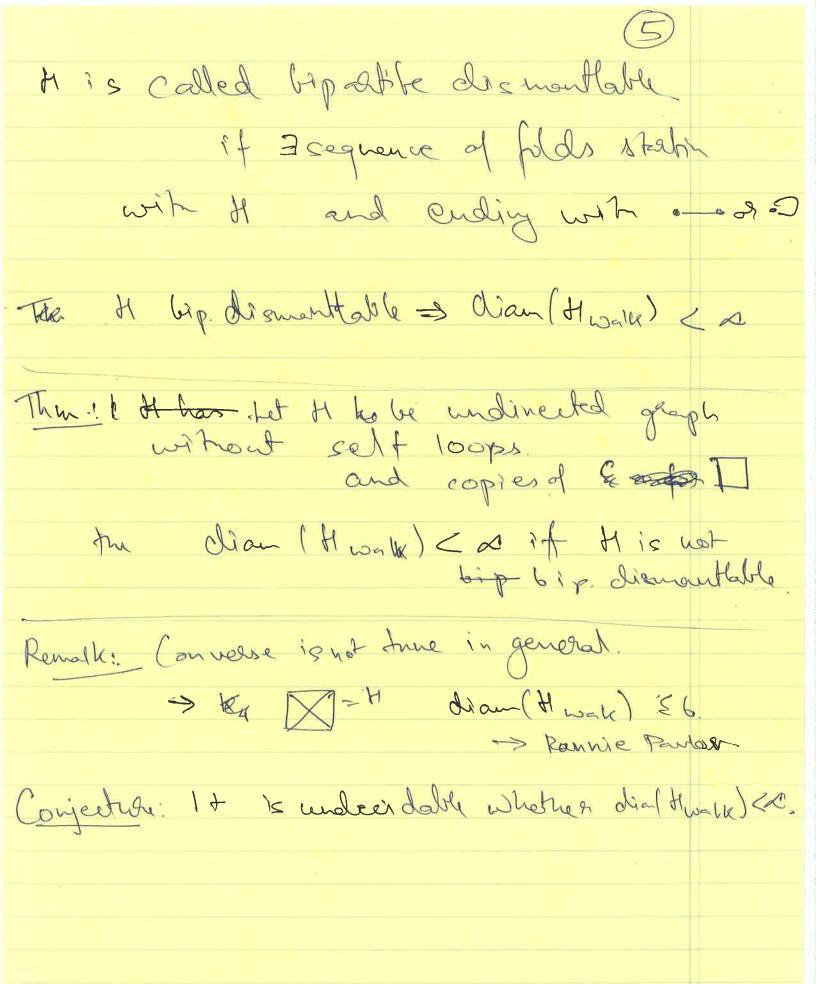
| KANSAS & DENVER |
|---|
| Iw Brian Malcus. |
| 1-2 H- undirected graph. |
| of - undirected graph without self-loops. |
| Hom (G, H)= {x: G>H i~ i =>x;~xx } |
| H-3/2 - proper 3-colorably of 2 |
| H- Co-1 - Hard no two 1' are adjacent. (hard core model) |
| (hald core model) |
| Hwark = (Hom(Z,H), Ewalk) |
| Moin ((x,y:x,-y; 4:623. |
| Qu' When is diam (Hwalk) < 00? |
| Motivation: Hom (22, H) forms a dynamical |
| Motivation: thom (22, H) forms a dynamical system. "Thousation of ix 6 thom (27, H) is attle a homomor phism) |
| |
| want to address > Howdo properties of of seffect in the dynamics of Hom (27, 4)? |





X (0 -1 Y 2 0 OD~ x for all
X (Star (Z,d) dia ((9-1)) = 2 Xn O H-graph. More generally. v folds into wif NA(V)CH(W) 2-3 Fach: ungris. Co [O note 11 -2 folding X 2 X 1 X 0 x f Hom (Z, H) Co. R - x popular X 0 | X -1 X 5-1 / X-5 X-2 X-3. Can deplace all vis where y F Hom (0, H) SUS



6. How to prove. chan (Hwalk) Z & for H-10/2 There is a natural map. Zemod 3: Z > & Cot This induces a covering map for But distance (b) = 20

Afference (b) Aifference of height (1)

A horse number of steps > 1/2 fix all n => . dian ((2) walk) = 2 -> diam (Hwalk) = 2. If His has no self looks and four cycles use on! two versal covered H >> H.

Thu: It is decidable whether dan (Hpoge) & n @ Conjectures 1 + is underidable whether dian (Hwalk) < 00