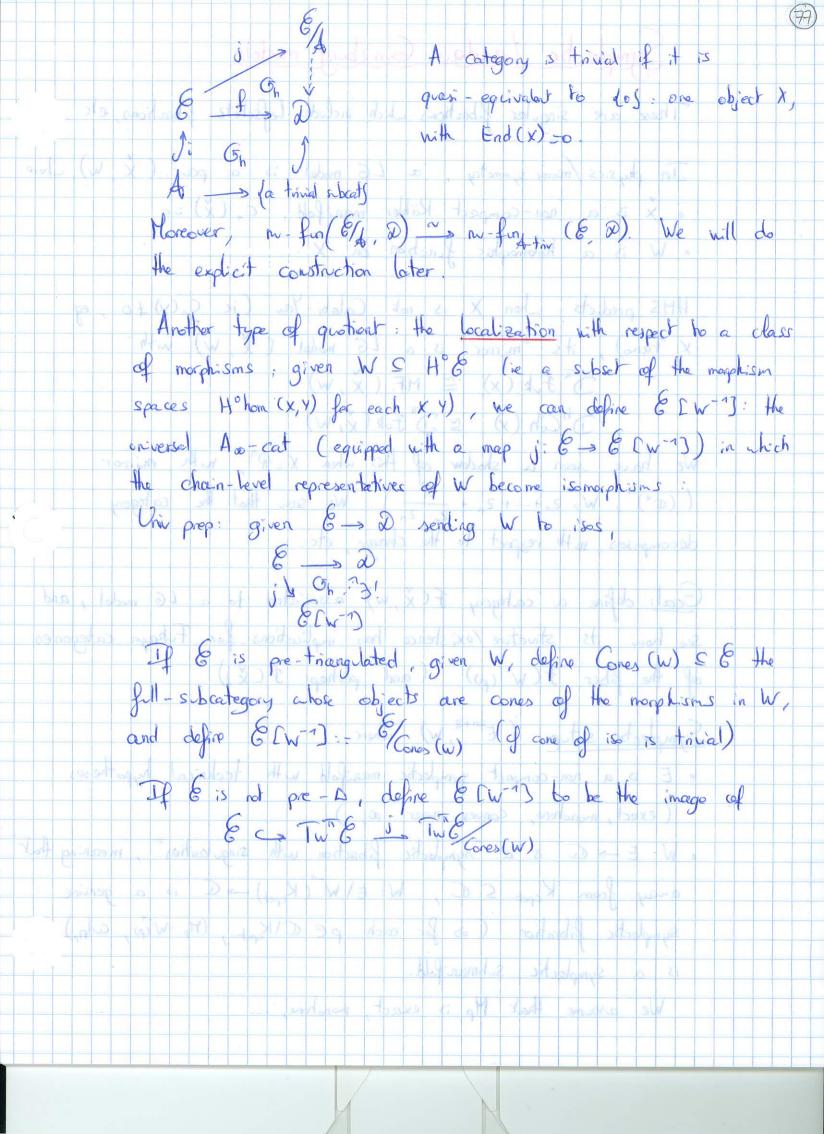
16/05/16 Last-time: Ao-cat & ~ Tw 6 - & pre- D hill Tw" 6 - Perf(E) split-closed pre- D hill A subcategory ASE sait-generates & if its inclusion indices a gras equivalence Perf(A) = Perf (E) Rem: the completion Perf (E) does not remember E of course & cap(E) is felly faithful, but we can't tell which objects Analogy: categories & Subset X C R? vector spaces SR" 1 Perf (-) spit-closed pre- DE subsets X S R? A bit more precisely: categories & (-) Z-span s latices in Rn pre- 1 categories po po to Japan 2 mayor spit-closed pre- D categories of indecomposables Example given & SE, we can form an An-quotient 6/4 Dinfeld: De case, Lyubashenko-Manzyuk), and we have TWE/A = TWE moreover & or fol as A split-generates & Co or E/ = E/Ty when G is split-closed pie - A The quotient satisfies a universal preperty: there exists a functor j: 6 > 6/4 which is "quesi"-initial among functors out of & rending A - fo), meaning YD:



(78) Deemplectic Landar- Sinzburg models: These are singular fibrations which include lefschetz fibrations, etc. In physics mirror symmetry, a LG model is a pair (X, W), where x is a non-compact Kähler manifold, C, (x) =0 · W is a hobmorphic function on X HMS predicts when X is not Calabi-Yau (ie C, (x) to, eg x Fano), its "mirror" is a LG model (x, w) with D'FLE(X) = MF(X, W) D'Ch (x) & D"Flk (x, w) We have seen a shadow of this when X=P', with minor ((a)), W= 2,+...+2, + 1, 2, 2, 2, ). We saw that the category decomposes with respect to the charge etc. Goal: define a category F(x, w) associated to a 6 model, and See how its structure / existence has implications for Fixaga categories of the fiber F(w)(p)) (and perhaps F(x)) Symplectic setup: (Ean+2, W) where E is a non-compact symplectic manifold with technical hypotheses (exact, monohore, convex near a,...) W: E > C is a symplectic fibration with singularities", meaning that away from Kepet S C, W. ElW (Kepet) - C is a genine Symplectic fibration (=> for each pe CIKepet, (Mp: Wip), culne) is a symplectic submanifold. We assume that Mp is exact, monohone,

