Computations in Motivic Momotopy Theory: — Dan?, Wayne State	
1. Motivic homotopy theory:	
Start with category of Smooth varieties over k.	
Cannot do show topy theory here - Not enough gling constructions	
) Add in formal horolanits on get simplicial fre-sheaves	
2) Restore some duried relations:	
und whould its declared in the motopy theory homotopy theory	
V Now homotopy pushout	
3) Declare that X-1A X in an equivalence	
E_{A} . $A \setminus A = 0 \cong \Sigma \setminus (A \setminus A = 0)$	
Stable motivic homotopy theory:	
5' = simplicial circle \ . Stabilize with respect S' = Ai-0 \ So both the spheres	
Warning: Not every spectrum is built out of spheres.	1 10
Can focus on "cellular motivic homotopy theory. But lose or Sof interesting varie	thes this acry.
The elliptic cuases, efield enknoions rellulor.	
The I what	
Theory of motives:	
Notive is supposed to retain only the cohomological impormation	
HZNEX is the motive of X. Why not simply EX?	
Realisation of functors:	
mot homotopy theory/c classical homotopy	
mot hundapy theory/R -> 25 - equivariant homotopy theory	
mot honotopy theory/R -> 25 - equivariant homotopy theory	
51,1 51,1 non-chivial action	

2. Survey of compensations of The (5°,0)	
$T_{p,\gamma} = 0$ if $p < q$ (Morell)	
Tet - Milnor Witt K. Skerry (Horell)	
$\pi_{p,q,p}$ - $\pi_{1,1}$, $\nu \in \pi_{3,2}$, $\sigma \in \pi_{7,4}$, $\gamma \nu = 0$	
The own C is the same as the classical To	
inplo del a si di decente per di	
Adamo Motivic SS (2-complete)	
Algebraic infut (Vocuodsky): $H^{**}(pt) = M_2 = F_2[\overline{\zeta}] \overline{\zeta} = (0,1)$	
(dual) Steemed Algebra: M2[z, 5;]/z=zsi+,	
inverting a neverto back to the classical seituation.	
$E_2 = E_X + (M_2, M_2)$	
4. Classical homotopy groups:	
5. 7- local sphere	
5° [7] = wolin (5-7-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 - 2-5 -	
Adama 35 Ext $[h,] \Rightarrow \pi_{**} \tilde{S}[\eta^{-1}]$	
A 179	
$\exists \hat{h}^{\text{in}}: \text{Ext } [\hat{\mathcal{A}}_{i}^{-1}] = \mathbb{F}_{2} \left[\bigvee_{i}^{k}, \bigvee_{i}, \dots \bigvee_{i}, \dots \right]$	
Adam . $d_2 \vee_3 = \vee_2^2$, $d_2 \vee_4 = \vee_3^2$	
Conjecture: d, v, = v, , , , , , S [n,] = F2 [p, 5]/52	
Also the nilfolence theorem foels where	
Rigid connection between	
motivic Adams over I and classical Adams Nouskou	
Q Machine computation of F2 ANSS.	
6. Dilminary real culations over R:	
9mJ is different. h. h. + o, h. h. + o, Juen: Extea 2 in dim 7 mod 8.	