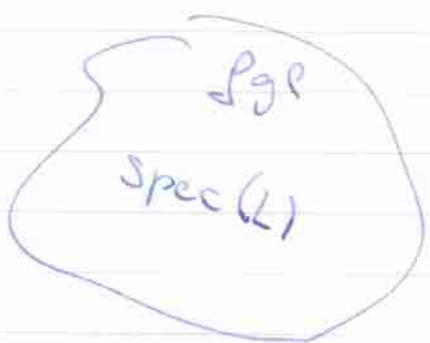


Morava & chromatic picture where
all this is from
It came from trying to under-
stand B_2 of ANSS

What is that? H^* of some
sheaves on moduli stack of
formal groups & isom.

What does that stack look like?



Change of covery

rather simple stack : affine scheme/
interested in the equivariant $H^*_G(X)$

If I want to understand $H_G(X)$
try to break X up into the orbits
of the gp action, build Spec
from colomn of orbits
 $\Rightarrow H_G(X)$.

Each of these orbits is G/μ
 $\rightarrow \text{Id}_{\mathbb{W}(\mu)}$

do this for moduli stack
of formal gps you find
that you are doing exactly
the Lulin Tate story

$(\)_{(p)}$ - subspace def by $p=0$
& complement

$\frac{1}{p}$ gfps / \mathbb{Q} all isom

\Rightarrow only one orbit when
we remove $p=0$, ~~which stabilizer gp~~ G/H
 $H = \text{autom } G_a$.

Now lets look at the things we

removed : we reduced mod p
& there is no. if we invert p ,
all the groups are isom &
 $H_1 = \text{Morava stabilizer gp}$

(...)

If you really want to set up that
spectral sequence, you need the
 E_n - def things to come in
gave beautiful picture with all
different periodicities, U_n 's
& people wanted to make this

more geometric

Ravenel conjectures

E_n , want stabilizer gp

to actually act on this

Morava's annuals paper

Ravenel proves

$k \times k$ example, $k(\mathbb{C})$ -matrices
 $\mathcal{G}_k = GL(k) \times GL(k)$

two matrices are in same orbit \Leftrightarrow
they have same rank

\Rightarrow the set of max rank is big open
subset $\det \neq 0$

then there are also ones of rk $k-1$

reason for going to \mathbb{Q}^1 's

looking at $H^*(E_n, S^{n+k}$ with mor.
stab gp)

= E_2 -term of S.S. \Rightarrow

$K(M)$ - locat Tors (Kerv S)

E_n — $\oplus_{\mathbb{Z}}$ ANSS

~~E_0~~

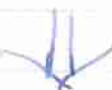
alg. chrom. sp. sec.

geom. chrom.
spec. sec.

$$\bigoplus_n H^*(S^n; G_{n+}) \longrightarrow \bigoplus_n \pi_* L_{K(n)} S^n$$



$$Ext_{M_n M_n}(M_n, M_n)$$



$$\Rightarrow \pi_* S^n$$

(30) : ~~separate out~~ wanted to separate out
 the part where the finite subgroups
 come in (they give you stuff in
 large cohomological dimension)

can compute everything about
 them, but they retain some
 non-trivial info.

try R versus R_0 to compute