Hodge-Tate comparison for a crystalline prism

Morting vering vertee hous by requestion, (A, I)=(A, pA) of en (Rp, p)

SOUL OF ART IN THE AGE OF BLACK POWER

Soul of a Nation: Art in the Age of Black Power

FEBRUARY 3 - APRIL 23, 2018

Soul of a Nation: Art in the Age of Black Power shines a bright light on the vital contribution of Black artists to an important period in American history and art. Featuring the work of 60 artists and including vibrant paintings, powerful sculptures, street photography, murals, and more, this landmark exhibition is a rare opportunity to see era-defining artworks that changed the face of art in America.

Developed by the Tate Modern in London and debuting in the US at Crystal Bridges, Soul of a Nation: Art in the Age of Black Power examines the influences, including the civil rights movement, Minimalism, and abstraction, on artists such as Romare Bearden, Noah Purifoy, Martin Puryear, Faith Ringgold, Betye Saar, Alma Thomas, Charles White, and William T. Williams.

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15 m 15 m m pt. 5 m.

de Rham cohomology in characteristic p $(f) = pf \gamma f$ ie. Fo/ R > S. in Roy Fo, Ps: 25/12 > 2/5/12 h_ <11 :>0 $R \in R_{ins} F_{p,i} S = R(X_i - ... \times n)$ $S = R(X_i - ... \times n)$ The (Sc"/12, 0) - 4512 (SLS/R, d.dr)

The Cartier isomorphism for affine space (and beyond) why is miss $(S2311/P, 0) \rightarrow (S11/R, d)$ ex. S=12(x) $(R(x)) \rightarrow R(x) \times R(x)$ $(R(x)) \leq R(x)$ R(x)=B/XiR(xr) $\frac{d}{dx} = \frac{d}{dx} = \frac{d}{dx}$

-) sorting sim, I - be R-) S smouth.

Divided power operations (and an example)

RERING Hat we R. Divided power of the thins $\gamma_n: 12 \rightarrow 120_2$ we mas $\gamma_n(x) = \frac{x^n}{n!}$ Mule: 8 (x+y) = E, 7, (x) 8,-1(y) For JCR, say mt Rhasdinded pointson J ·NF Y (X) e R YXET

P-Hi+ R= rrs, JCP, decl in Med powers on (p). R= rrs, JCP, decl DJ (12)= 1111ded pover envelope = SANLJUT ROAM Screetedly R CM Jn(X) XCJ = minimal slon-jot Rozae cantaning R admitting linded pross on J. $e_{\gamma}(Z(x), x) \rightarrow (Z(\frac{x}{n}))$

Divided powers and the Poincaré lemma

AGRNg P-to son-tree P= A(X) D= p-ali(wy bhuit Dxp(P) The

diD -> DO SIPA = Ddx 155/1/4 he she hered A.

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(A) De A(X)

A

Divided powers on δ-rings: an exercise Exerse: n= Ry- < yeter about of my structure Then Rahmits Unidedpowers on J. If
wee Johns =) R=R(p) (X) ad J=x R, the map

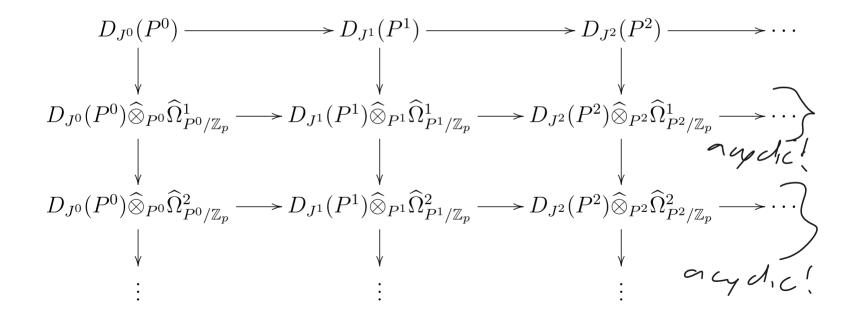
R -> Dp(R) promites to Riggs! Pt gestids from R to D-(P)= A(Jn(x))
Their Misgires wolf.

- on (d(x)) $\phi(Y_{\Lambda}(X)) = \gamma_{\Lambda}(X)^{\rho} \equiv 0$ (mod p) V >> 1

A concrete divided power envelope $Z_{(r)}(z)$ Q(X)5 - Neal (P(X)-p2) (a/smilv/z,~ mutyleven Liles) $\mathcal{D}_{x,\dots,x} \left(\mathcal{D}_{(p)} \langle X, \dots, X, X \rangle \right) = \mathcal{D}_{x} \langle X, \dots, \mathcal{U}(X) \rangle$

Hodge-Tate cohomology of affine space: setup WTS: Hold tak arganson for (DI)=(PRP) R= Fp (x. . - - x-). idea: study DRIAED(A) vins DRIAED(A) = Dr/10 = A (P, I) = reakly to al of P?= Cp (xi): i=1,..., r) j=0,... vn } of (VA)/A. $0 \longrightarrow P^0\{\phi(J^0)/p\}_{(p)}^{\wedge} \longrightarrow P^1\{\phi(J^1)/p\}_{(p)}^{\wedge} \longrightarrow P^2\{\phi(J^2)/p\}_{(p)}^{\wedge} \longrightarrow \cdots$ $0 \longrightarrow D_{J^0}(P^0) \longrightarrow D_{J^1}(P^1) \longrightarrow D_{J^2}(P^2) \longrightarrow \cdots$

Hodge-Tate cohomology of affine space: rows



Hodge-Tate cohomology of affine space: columns

