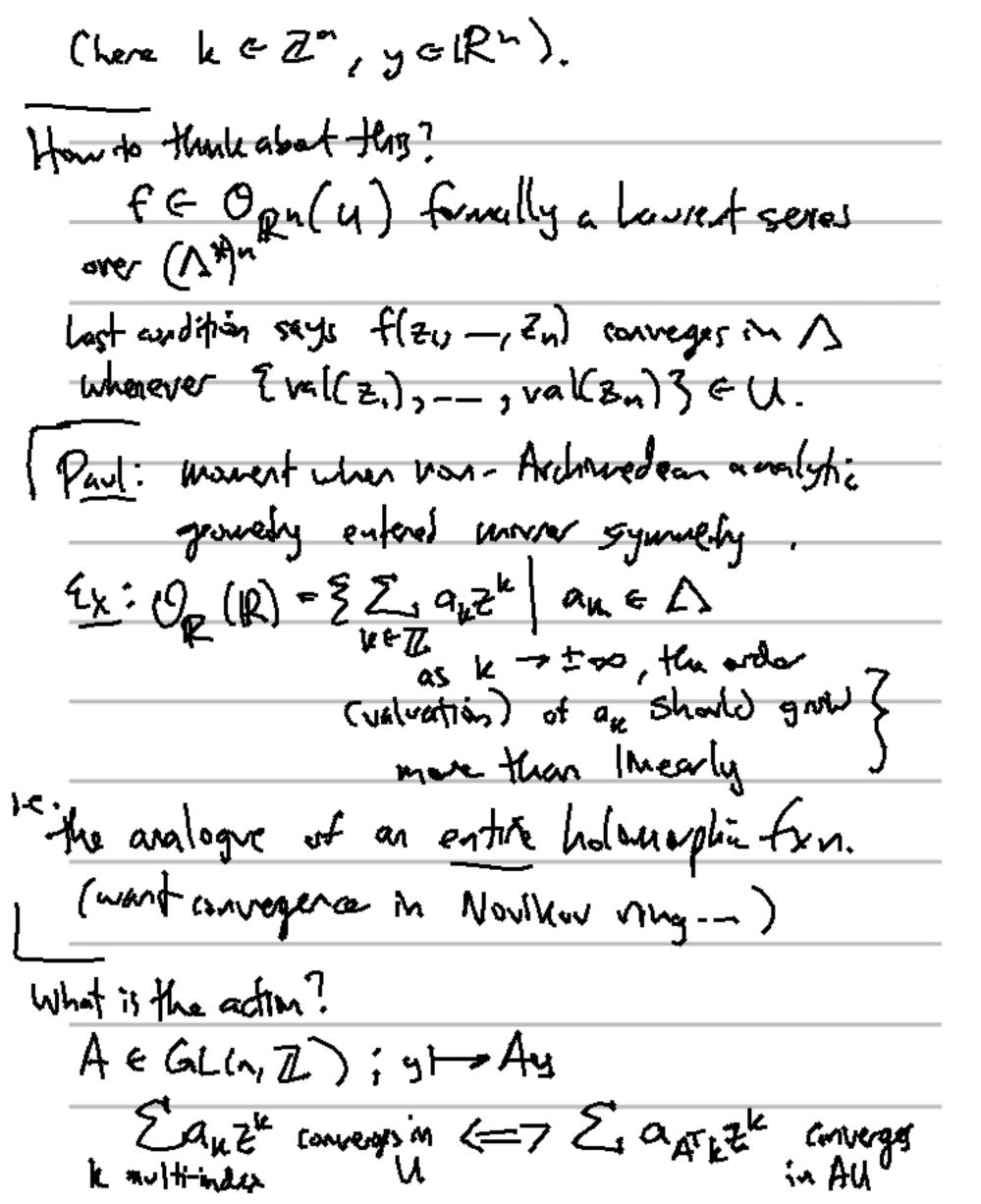
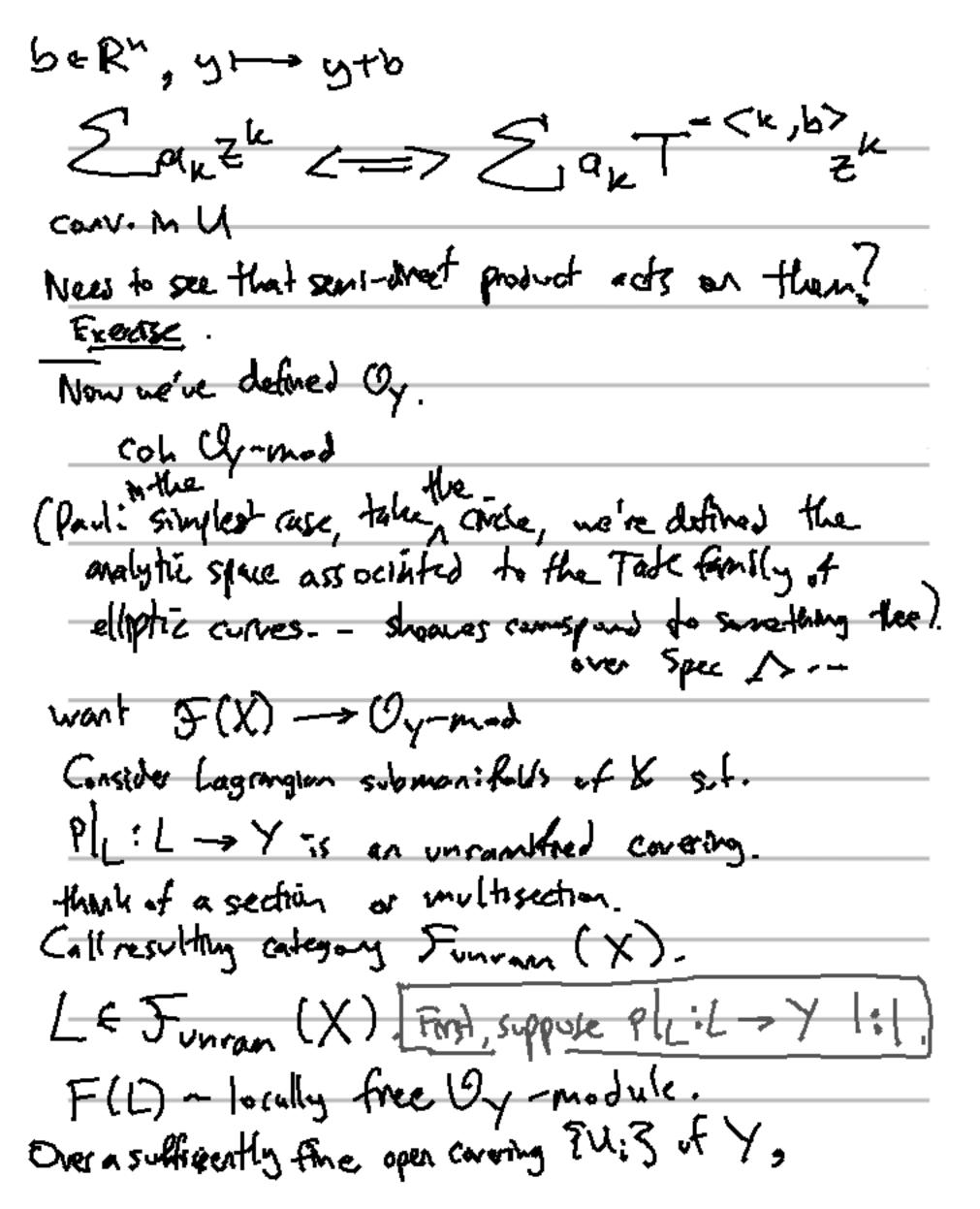
Day's Talked: James,
Filaya Cal. of This Fibration 5
p:x
No management of the second
X symplectic, Y compact base
p locally towal, Lagrangian for fibration
Kontserrh-Solbelmon 2001:
Pelake F(X) to Oy-modules
By sheaf of (1) algebrase on Y
Relate F(X) to Oy-Modules, Oy sheet of (A) algebras on Y  Novikov Mag.
10. DJ(x) = Db(coh Oy-mod)
Affire structure on )
Det: Amathine structure on / consists of an
s.I. Vioy: 1 EGL(n, Z) XRn
Yinkgral affine >P:X-Y
IP The system of integral cotangent vectors.
local system vectors.

Now, given J.P. H. (fiber, Z) local system on y Locally: take a basis of sections, 81,000 &n represent them by (n+1) divid submanifolds  $\Sigma_1, -, \Sigma_n \subset X$ . (Paul: these are all lugh towns fibrations subjects admit a lag'a section. basepoint xo.

Define y, (x) = for (x) x 5; 1:= 25 citil cie (, 7: eR, ling 7:=0) Refrie val (Sc: Tai) := win {713 To construct Oy, construct Open, along with an action GL(n, Z) XR" M (R", OR").  $\frac{\partial p_n(u)}{\partial k_n(u)} = \left\{ \sum_{k \in (k_1, \dots, k_n)} \alpha_{k_1, \dots, k_n} \sum_{i=1}^{k_1} -z_i^{k_1} \mid \alpha_{k_i} \in \Lambda, \right.$ ¥yeu, lim onf [val(ak)+ <k,y7]=0. N-00 1K|≤N





 $F(L)(u_i) \simeq O_Y(u_i)$ choice of isomorphism comorporus to Choice offecoo(u;) s.t. Lnp"(u,) = graph of of mod Ty Y. ٤×: Charge f +++++, where dl is a section of T7 Y \*...ltiply by exp(L) in. l= c+<m,y> != T° TT ₹; \*\ "integral If p:1\_-> Y is not 1:1, take direct sum locally of sheaves associated to each sheet. e× .

Ex: 7= R7/ Zn	$X = \mathbb{C}^{n}/\mathbb{Z}^{2n}, c_1 = 0.$
	aleelton variety.
L=section goven by d	f, ferquadratic form in R"
	s.t. of takes integral values
L= Orsedian CF	* (Lo, L.) concentrated in
	* (Lo, Li) concentrated in deg = studence of quadratic formf.
1.1.1) like to see that	rk Ext*(F(b)),F(h))
Concretely:	
	F(Lo)= Ox, 6/c
L.	
	to = gaph of for fe com(Y) (e.g. f=0)
deg o interection	
	Exto (F(LD), F(L))=1
HF *(Lo, L, ) = /	(9~
HF'(Lo,L)=0	H° (F(L,)).

Suppose Zakzk is some section.
In passing from noighborhood of 0 to
and the state of t
shift: y-y+1.
シューンラ(y-1)2 = シュータキーラ
E akt = Sakt = Sakt = Lakt T
in order to define global section, need
in order to define global section, need
ak-1 = akt-ktt/2 ->gives recurrence
determing all roofes from
a single one, say ao.
5. h° (F(L,)) < 1.
val (ax-1) = val (ax)-k+1/2
(val(ax) val (ax)~ k2
h get a global section
1 = (L,)) = L

