Sont Deformation theory - Frégies - quantization: P >> P: 24 1-> -it = 2 7

2 - quantization: 2 >> X: 7+> x4 -> f * t g:= (f o g) " Then (Mayarl-Grönwald) * + B, (-, -) to + Bz(-, -) to 2... ht = portp. -[a, b]: == = = = (p; (a, b) - p; (b) a) Prop. [a,6]1 15 Poisson. -converse: given (., {3), 3? pt - mathematical structures can similarly be deformed -> but modulo isomorphisms -e.g., GL(V)GL(V⊗V,V)

(gop) (a,6) := g(p(g'a,g'16))

then Ty Ass = H'Hoch

Second lecture -now C = A , algebra

- Der t = { Decental (ab) = (aa) b + (-) a(ab) }

- for t free, A = TV = V Du

-> Der TV => 2 q: V -> TV} Ass (V) = M((_ T__) 2 ie (V) = M((_ S._)

-q: (V) -M ((_ ?,??)

-a: Koszul duality -> Asi = As , Lie' = Comm

-> so we need to understand the shriek.