Imp Wilt (Q&A)

08/67/2015.

Stations phone.  $I_h = I_n(q, \psi) = \int_{\mathbb{R}^d} e^{i\psi(n)/h} a(n) dn$ . 4 € co (md), real valued, a € co (md).

If II initical pt 2° of 4 in 8pt a, "it rendegenerale (I). I diff op Azu (n, n) 1.+. VK

| In - ( Exck [Azn(n,D) a] (20) hinds) i (e) (20) th |

5. hk+9/2 \ \tan \text{sup | Yal. } \ 1 \times | \tan \text{d-1}

(IT).  $A_0 = (2\pi)^{4/2}$  | det fless  $(96)^{-\frac{1}{2}}$  eith sem Hess  $(96)^{-\frac{1}{2}}$ .

H @ No initical pt => In = 0 (100).

O Mark lenna: 4: Rd → R € c non-deg, cutical pt 2°. => I low and contact at is, ((2)= ((n°)+ \(\frac{1}{2}\)(\alpha^2+--+m\)\(\frac{2}{3}\)-\(\eta^2----m\)\(\frac{2}{3}\).

(2)  $\psi(n) = \frac{1}{2} \langle Q_{m,n} \rangle$  Q non sing, symm. real.

· F(e/2 < an, n) = (2) c/2 · e/2/4 sqn Q e-2/2 (6'3,9).

· (Fn, v)= <n, Fv>. = Laylor expul

Simon llorshull (expnding Pohl's lectures).  $\mathcal{D}(x)$  complete. A, a= Lie (A), Te AVQ/W  $D \in \mathcal{D}(X) \cong \text{Poly}(Q^*)^W$ . Hansh-Chandra.  $\rho \sim \rho$ . 46c4(x) => D4 = p(x)4. G= SL(3, TR), OEX=G/K=SL(3, TR) (SO(3). X = {g = M)x3(12) = +g=q, 9>0, det g= 1}. y & SL(3, 12), g I + g = g + g = I. AEX, g, A = gAdg dim X=5, rk X=2., diagonal matrices CX form a Mat. A= (xxx) CSL(3, IR), A>0.  $W = N_G(A)/Z_G(A)$ .  $Z_G(A) = \widetilde{A} = \begin{pmatrix} x \\ x \end{pmatrix}$  $N_G(A) = \tilde{A} \times S_3 \times Symm = 3$ Symbols  $\Rightarrow$   $W = S_3$ .