IN = (1) The Or Willippens (1) Lab = i [a0+ (b-a)4] Ta-6 (pr.) $u_{bc} = i^{-b} e^{i\left[b0 + (c-b)\phi_{a}\right]} + \int_{L_{a}} (pr)$ El Wil Whi = i c-a i al + coeale the wild - (2) or -ab. 5 102+4-4-7 (pr) to 2 (pr) Sumann Henem MORSIMUST & Stegun J, (n+v)= 50 J, (v) J, (v) E tab (pr) Toc(pr) = S J (pr) J (pr) = t [p(ritri] So if On, bi, di =0 ...

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 $V_{mn}(g(-1,0), p) = e^{n-m} e^{-1(n\theta + (m-w)\phi)} f_{m-m}(pv)$ $v_{mn}(g(-1,0), p) = i^{n-m} e^{-i(m\theta + (m-w)\phi)} f_{m-w}(pv)$ TWEERE TO una (gr.4,0p) uan (g'(1,4,0)) L RT LA STRANGOR = & i a-m : [a0+(m-a)4]
- & i a-m : [a0+(m-a)4]
- fa-molor)
- a i a-m : [a0+(n-a)4]
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- fa-molor) Eiln(+)+(m+)(+e) = Zin-m-i (m-n) po po fa-m(pr) fa-z (p-) ~ [mo+(m-w4] & m = e crimo + (n-m) JTff ? n= i(m-n) + - 1 nd. still Raciny irons sitt expanse. J_c(-pr)= & Funda, Suppa 3(g(Files)) = 810-80) 84-4) 81-1/4. An (p) = 000 [80-6084-6)8/2 | rdr dodo = in-m = [no+ (n-w4)] fun (p) = in-m = fm-4) e-indo+ (m-w) fo

	Deriving key identity for SE(2) fransform integral. First, note "Bessel's First integral": $f_n(z) = \frac{1}{2\pi i n} \int_0^{2\pi} e^{iz} \cos \theta i n \phi d\theta$.
	First note "Bessely First integral":
	$f(z) = 1$ Par iz cosp in ϕ .
	In in to e do.
	Sum Addition Theorem:
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	$\sum_{m=0}^{\infty} J_m(y) J_m(z)$
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	= 20 pt e iyast ind 12 csp. 1/nm)4
	m=0 my) $\frac{1}{2\pi}$ \frac
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	$= \frac{2\pi}{2\pi i} \int_{0}^{2\pi} \int_{0}^{2\pi} \frac{2\pi}{4\pi i} \int_{0}^{2\pi} \frac{2\pi}{4$
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	$= J_n(y+z)$
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