PSALTer results panel

	$\overset{1^{+}}{\cdot}\mathcal{H}^{\parallel}{}_{\alpha\beta}$	$^{1^{+}}\mathcal{A}^{\perp}{}_{lphaeta}$	$1^+f^{\parallel}_{\alpha\beta}$	$^{1}\mathcal{B}_{lpha}$		$^{1}\mathcal{A}^{\parallel}_{_{lpha}}$			$^1{\cal A}^{\scriptscriptstyle \perp}{}_{\alpha}$	$^{1}f^{\parallel}_{\alpha}$	$^1f^{\scriptscriptstyle \perp}{}_{\alpha}$															
<u>αβ</u> <u>1</u>	$\frac{1}{5} \left(-6 \lambda_{1} + 6 k^{2} \left(2 r_{1} + r_{1} \right) + t_{1} + 4 t_{1} \right)$	$-\frac{6\lambda + t - 2t}{3\sqrt{2}}$	$-\frac{i \ k(6 \ \lambda . + t_{1} - 2 \ t_{1})}{3 \ \sqrt{2}}$	0		0			0 0		0															
αβ	$-\frac{6\lambda + t_1 - 2t_1}{3\sqrt{2}}$	$\frac{t.+t.}{\frac{1}{3}}$	$\frac{1}{3} i k(t_1 + t_2)$	0		0			0 0		0				2 ⁺ σ αβ				2 ⁺ τ α	2		$^{2}\sigma^{\parallel}_{\alpha\beta\chi}$				
αβ	$\frac{i \ k(6 \ \lambda. + t 2 \ t.)}{3 \ \sqrt{2}}$	$-\frac{1}{3}i k(t_1 + t_2)$	$\frac{1}{3}k^2(t_1+t_2)$	0		0			0 0		0	2, 0	τ [∥] † ^{αβ}	.4.(2, 2,	$k^2 (\lambda + t_1)$.2. (2			√2(2 λ	+t.)	2	0	αβχ			r + -1-
α	0	0)	$-6 \lambda_1 + \frac{v}{2} + 4 k^2 (r_1 + r_2 + r_5)$	$-2 \qquad \lambda + \frac{v}{6}$	+2 k ² (r.	+ r. + r.)		$\frac{12 \lambda \cdot \nu}{6 \sqrt{2}}$	0	$\frac{1}{6} i \ k(12 \lambda v.)$			1 3	$\sqrt{2}(2 \lambda + t)$		1 2 8		$(2r_1 - 2r_1)$				2 R	0	0	3 + 1 ² r +
α	0	0	0	$-2\lambda \cdot + \frac{v}{6} + 2k^2(r_1 + r_2 + r_3)$					$\frac{24 \lambda \cdot v + 6 t_1}{18 \sqrt{2}}$	0	$\frac{1}{18} i \ k(24 \lambda v. + 6 t_1)$		τ † ^{αβ}	2 k³ (2 r 2 r	$+r$)(λ + t 1)-k λ (2 λ.+	(z	2 - 2 - +	$r_{4})(\lambda +t_{1}$	$\frac{1}{2}k^2\lambda$ ($(2\lambda + t_1)$	0	اعلا	$i \ k(2 \ \lambda + t_1)$ $\sqrt{2}$	$k^2 (\lambda + t_1)$	
r	0	0	0	12 λν. 6 √2		$\frac{24 \lambda \cdot v + 6 t}{18 \sqrt{2}}$			$\frac{1}{36} \left(12 \lambda + v + 12 t\right)$	(i) 0	$\frac{i \ k(12 \lambda. + v. + 12 t.)}{18 \sqrt{2}}$	² σ ^l	† ^{αβχ}		0				0			$\lambda + k^2 r + 1$		$\frac{t}{2}$ $i \ k(2)$	k ² (A	
	0	0	0	0		0			0 0		0	₽		0	0	0	0	$\frac{1}{2\lambda + k^2 r} + t$								-
	0	0	0	$k\left(-2i\lambda+\frac{i\kappa}{6}\right)$	$-\frac{1}{18} i k$	k(24 λ v.	+6 t.)		$\frac{i \ k(12 \lambda + v + 12 t_1)}{18 \sqrt{2}}$	0	$\frac{1}{18} k^2 (12 \lambda. + v. + 12 t.$)											2+ع∥	-2 7. +	$\lambda (2\lambda + t_{\perp})$	
$\partial_{\alpha} \phi \ \partial_{\alpha} \phi + 6 \ \partial_{\alpha} f^{\beta} \ \partial^{\alpha} \phi +$	$\int_{a}^{x} (x^{2} + 2 \partial^{2} f)^{\alpha}$ $= -12 \partial_{\beta} \mathcal{A}^{\alpha\beta}$ $f^{x} \partial^{\beta} f^{\alpha}_{\alpha}$ $= 3 \partial_{\alpha} f_{x} \beta^{\lambda},$ $= 2 \mathcal{A}_{\alpha\beta x} (5 \mathcal{S}_{x} + 2 \mathcal{S}_$	α, 9 ⁸ 2	$a_{\alpha\beta}^{}$ $a_{\beta}^{}$ $a_{$	y y	ان ن کا 0	0	0 0	0	$\frac{-2\lambda + k^2 r + t}{2}$,0 ¹ ,0	3(12 A-v)	$\frac{28k(12\lambda^2 + \lambda \cdot v + 2k^2 \kappa' (r_{-1} + 2r_{-1}))}{\sqrt{3}(12\lambda^2 + \kappa \cdot v + 24k^2 (r_{-1} + 2r_{-1}))}} 0$ $\frac{32k^2(12\lambda^2 + \kappa \cdot v + 2k^2 (r_{-1} + 2r_{-1}))}{32k^2(12\lambda^2 + \kappa \cdot v + 2k^2 \kappa' (r_{-1} + 2r_{-1}))} 0$	$\frac{i}{56\sqrt{2}(\frac{kA}{2} + \frac{k^3 \cdot (\frac{i}{12}, \frac{4}{2}z_4)}{12\lambda + v_4})} = 0$	$\frac{-12 \lambda + \nu + 24 k^2 \left(r_1 - r_3 + 2 r_4 \right)}{32 k^2 \left(-12 \lambda^2 + \lambda + \nu + 2 k^2 + \nu \left(r_1 - r_3 + 2 r_4 \right) \right)} 0$	0 0	0	Multiplicities 1	1	1	Г		$\frac{3}{3} \qquad \qquad 2^{+} \mathcal{A}^{\parallel} +^{\alpha \beta} \frac{\lambda + k^{2} (2r_{1} - 2r_{3} + r_{4}) + r_{4} + r_{5} + r$	2. f ll + αβ	15 2-α∥ +αβχ
$\partial^{\alpha} \phi$)-9 ∂_{α}	$a - \partial_{\beta} f^{\alpha\beta} \partial_{\chi} \rangle$ $a - \partial_{\beta} f^{\alpha\beta} \partial_{\chi} \rangle$ $a^{\gamma} f^{\alpha} - 2 \partial_{\beta} $ $a^{\gamma} f^{\alpha} \partial_{\chi} f^{\alpha\beta} - 4 \partial_{\gamma} f^{\alpha\beta} + $, , 4	α β - δα βα β - βα β +	+ 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	0, t ₁	0	0 0		0 -2.					2r,)) 42r,))	(1.1)				2 [1	(*)	(1)	(1)	,	
$_{3}+6\mathcal{A}_{\alpha\beta}^{\beta}(\mathcal{B}^{\alpha}-\partial^{\alpha})$	$\int_{\alpha} f_{\alpha} = \partial_{\beta} f_{x} \delta^{\beta}$ $\partial^{\beta} f_{\alpha} = \partial_{\beta} f_{x} \delta^{\beta}$ $= -72 \Phi \partial_{\beta} \mathcal{B}^{\alpha} + 11$ $= -4 \partial^{\beta} f_{\alpha} \partial_{x} f_{x} f_{x} + 4 \partial^{\beta} f_{\alpha} \partial_{x} f_{x} f$	$\int_{\alpha} \frac{\partial x}{\partial x} f^{\alpha\beta} + 2 \frac{\partial x}{\partial x} f^{\alpha\beta}$ $\int_{\alpha} \frac{\partial^2 x}{\partial x^{\alpha\beta}} + 4 \frac{\partial^2 x}{\partial x^{\alpha\beta}} + 4 \frac{\partial^2 x}{\partial x^{\alpha\beta}} + 4 \frac{\partial^2 x}{\partial x^{\alpha\beta}} + 6 \frac{\partial^2 x}{\partial$	$-2 \frac{\partial^{2} \mathcal{A}^{\alpha \beta}}{\partial^{2} \mathcal{B}^{\alpha}} \frac{\partial_{5} \mathcal{A}^{\beta}}{\partial^{2} \mathcal{B}^{\alpha}} + 4 \frac{\partial^{\beta} \mathcal{B}^{\alpha}}{\partial^{2}} \frac{\partial^{\beta} \mathcal{B}^{\alpha}}{\partial^{2}} \frac{\partial^{\beta} \mathcal{B}^{\alpha}}{\partial^{2} \mathcal{B}^{\alpha}} \frac{\partial^{\beta} \mathcal{B}^$	$\sum_{k=0}^{k} G^{k} G^{ab} = -\lambda_{k} G^{ab}$ $\sum_{k=0}^{k} G^{b} G^{ab} = 0$ $\sum_{k=0}^{k} G^{ab} G^{ab} = 0$ $\sum_{k=0}^{k} G^{ab} G^{ab} = 0$	$0^{+}f^{\parallel}$ $0^{+}f^{\parallel}$ $\frac{i\kappa(12\lambda-\nu)}{2\sqrt{3}}$	2 $\sqrt{3}$	H2 7.)		0			0+0 √6 ν.		$ \frac{49(\cdot12 \ \lambda^{2} + \lambda \ v + 2 \ k^{2} \ v \ (v_{1} \cdot v_{3} + 2 v_{4}^{2})}{i (36 \lambda^{-3} \ v \cdot (v_{1} \cdot v_{3} + 2 v_{4}^{2}))} $ $ \frac{28 \ \sqrt{6} \ k (\cdot 12 \lambda^{2} + \lambda \ v + 2 k^{2} \ v \cdot (v_{1} \cdot v_{3} + 2 v_{4}^{2} + 2 v_{4}^{2}$	ν 49(-12 λ.² +λ. ν. +2 κ² ν. (rr. +2 r. ₄))	$\frac{i}{56 \sqrt{2} \left(\frac{k \lambda}{2} + \frac{k^3 \kappa \cdot (r_1 \tau_1 + 2r_1)}{13 \lambda + \kappa}\right)}$	0	0				$(+\partial_{\delta}\partial^{\delta}\partial_{\chi}\partial^{\chi}\sigma^{\beta\alpha})$		βδ + 2 β βδ β αχαβ ==	- 0x 000 5	
3 Ba O. O - 6 Ba O. F	$\begin{cases} \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \\ 36 & g_{\alpha} & g^{\alpha} - 36 & g_{\alpha} \\ 36 & g_{\alpha} & g^{\alpha} - 36 & g_{\alpha} \\ 24 & f^{\alpha\beta} & g_{\beta} & g^{\alpha} & f^{\alpha\beta} \\ f^{\beta\chi} & -2 & g_{\beta} f^{\alpha\beta} & g^{\chi} f^{\alpha\beta} \\ +3 & g_{\gamma} f_{\beta\alpha} & g^{\chi} f^{\alpha\beta} \\ +3 & g_{\gamma} f_{\beta\alpha} & g^{\chi} f^{\alpha\beta} \\ & \mathcal{A}_{\chi} & g^{\beta} f^{\alpha} & -g_{\beta} \\ & \mathcal{A}_{\chi} & g^{\beta} f^{\alpha} & -g_{\beta} \end{cases}$	$\begin{array}{c} C_{\beta,\chi} \\ -2 \partial_{\alpha} f_{\chi} \\ -2 \partial^{\chi} f^{\alpha} \end{array}$	$\int_{a}^{x} \mathcal{A}^{a\beta\chi} \partial_{\alpha}^{x}$	$\begin{array}{c} + \delta_{\chi} \mathcal{A}^{\mu_{\chi}} \big) - \delta_{\mu} \\ = \delta_{\mu} - \delta_{\mu} \mathcal{A}^{ab\chi} \\ = \delta_{\chi} \mathcal{A}_{abb} + \delta_{b} \mathcal{A}_{abb} \\ = \delta_{b} \mathcal{B}^{a} + 2 \delta^{b} \\ = \delta_{a} \mathcal{B}_{b} \partial^{a} \mathcal{B}^{a} - 6 \delta^{b} \mathcal{A}_{a\chi} \\ = \delta^{b} \mathcal{A}_{a\chi} \partial^{b} \mathcal{A}_{\chi} \partial^{b} \mathcal{A}_{\chi} \\ = \delta^{b} \mathcal{A}_{a\chi} \partial^{b} \mathcal{A}_{\chi} \partial^{b} \mathcal{A}_{\chi} \partial^{b} \mathcal{A}_{\chi} \\ = \delta^{b} \mathcal{A}_{a\chi} \partial^{b} \mathcal{A}_{\chi} \partial^{b} \mathcal{A}$	+ '	<i>i k</i> (12 λ − ν.) 2 √6	$\lambda + \frac{1}{12} + 2 k^2 (r - r + \frac{1}{3})$	6 √2 0	0				ī k	$ \begin{array}{c} (v, (r, r + 2r)) \\ (r, r + 2r) \\ (r, r + 2r) \\ (v, (r, r + 2r)) \\ (v, (r, r + 2r)) \end{array} $	r +2r.))	() 4				^{1}ab		$\beta + 2 \partial_{\delta} \partial^{\delta} \partial_{\chi} \partial_{\beta} \sigma^{\beta \alpha \chi} = $ $\int \sigma^{\alpha} + 2 (\partial_{\delta} \partial^{\delta} \partial_{\chi} \partial^{\alpha} \sigma^{\beta} \chi^{\alpha})$		$\sigma_{\beta}^{x} + \partial_{\chi}\partial^{\chi}\sigma$ +2 $\partial_{x}\partial_{x}\partial^{\alpha}\sigma^{\chi}$	$\beta^{\alpha} + 2 \partial_{\alpha} \partial_{\chi} \partial^{\beta}$	
.A. x -9 8 8° +18	$\int_{\mathcal{S}} x \times \int_{\alpha} d\alpha d\beta f_{\alpha}^{\beta} = 6 \partial^{\alpha} \Phi d\beta f_{\alpha}^{\beta} = 9 d\beta f_{\alpha}^{\beta} = $	$\beta_X = \beta_{\alpha X} + \beta_{\beta Y}$ $\partial Y_f^{\alpha \beta} - 2 \partial_{\alpha f} \beta_{\beta Y} \partial_{\beta Y}$ $(f^{\alpha \beta} + \mathcal{A}_{\alpha \beta X}) (\mathcal{A}^{\beta})$ $\beta_{\beta \alpha}^{\alpha} - 4 \partial_{\alpha \beta} \partial^{\beta} \beta^{\alpha}$	$\int_{\alpha} -\partial_{x} \mathcal{A}_{\beta} \int_{\delta}^{\delta} \partial^{x}$ $4 \partial_{\alpha} \mathcal{B}_{\beta} \partial^{\beta} \mathcal{B}^{\alpha}$	$\int_{\mathbb{R}^{N}} \int_{\mathbb{R}^{N}} \int_{$	$\begin{array}{c c} 0 & \text{At } + \cos A_{abk} & \text{At } \\ \hline & 0^+ \phi & \\ \hline & 1 & \text{At } 2\lambda & \text{At} \end{array}$	k² v.	2 √6 2 √6	2 √3	0			σ_{+0}	-36	28 \(\cdot \) 12 \(\lambda \) 24 \(\cdot \) 12 \(\lambda \) 3 \(\lambda \) 12 \(\lambda \) 14 \(\lambda \) 12 \(\lambda \) 13 \(\lamb	$i \sqrt{\frac{3}{2}} (12\lambda \cdot v)$ $28k(-12\lambda^2 + \lambda \cdot v + 2k^2 \cdot v) (r)$	$\frac{\sqrt{3}(-12 \lambda + v + 24 k^2 (r_1 - r_1 + 2))}{32 k^2 (12 \lambda^2 v_1 (\lambda + 2 k^2 (r_1 - r_1 + 2)))}$	0	0	ant form $\partial_{\mathcal{B}}\partial_{\alpha}t^{\alpha\beta}=0$	$\partial_{\alpha}\partial^{\alpha}\rho + \partial_{\beta}\partial^{\beta}\tau^{\alpha}_{\alpha} = \partial_{\beta}\partial_{\alpha}\tau^{\alpha\beta}$	$\partial_{\alpha} \mathcal{J}^{\alpha} == 2 \partial_{\beta} \sigma^{\alpha \beta}_{\alpha}$	$\frac{\partial_{x}\partial^{x}\partial_{\beta}t^{\alpha\beta} + \partial_{x}\partial^{x}\partial_{\beta}\partial^{\alpha}\mathcal{J}^{\beta} + 2\ \partial_{\delta}}{\partial_{x}\partial_{\beta}\partial^{\alpha}\tau^{\beta} + 2\ \partial_{\delta}\partial^{\alpha}\partial^{\beta}\mathcal{J}^{\alpha} + 2\ ($	$r^{\beta\chi} == q_i \partial^{\chi} \partial_{\mu}$	$\partial_{\beta}\partial^{\alpha}\mathcal{J}^{r} := \partial_{\beta}\partial^{\mu}\mathcal{J}^{\alpha} + 2(\partial_{\chi}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha}\partial^{\alpha$	$x^{\beta} + \partial_{x}\partial^{\beta}\tau^{\alpha x}$	
$\frac{1}{2}$ v. ($\mathcal{A}^{\alpha\beta}$	a g t t g g	a R Tax	$\partial_{eta} \mathcal{A}_{X}^{\delta}$ $\Gamma \cdot (-4 \partial_{\alpha} \mathcal{A}_{X}^{X})$	$4 \sigma^{\prime\prime} S^{\prime\prime} \sigma_{\lambda'} S^{\prime\prime} \sigma_{\lambda'} S^{\prime\prime} \sigma_{\lambda'} S^{\prime\prime} \sigma_{\lambda'} \sigma_{\lambda'$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$k(-6i\lambda + \frac{i\kappa}{2})$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 √3	0			\mathcal{L}_{0}^{+0}	6 v.	$\frac{+\lambda \ v + 2 k^2 v \left(r \cdot r + 2 r 4\right))}{3 i (12 \lambda \cdot v)}$ $+\lambda \ v + 2 k^2 v \left(r \cdot r + 2 r 7\right)$	√6 ν 588λ²-49ν. (λ.+2 κ² (γ. γ.+2 γ.))	$\frac{1}{{}^{\frac{1}{4}} \frac{56i k^3 \kappa (r_1 + 2 r_1)}{\sqrt{3(12 \lambda \kappa)}}} +$	0	0	form Covariant		0:	$-i \ k^{1} \mathcal{J}^{\alpha} == 0$		- ! J" == 0	0	Total expected gauge generators:
11					λ + - 2	λ	124.							31 28 × (-12 λ ² + λ · · ·	88 A ² -49	281# 4				را == 0	0+J ==	α + 1 _L		$=2.1\sigma^{1}$	· -	pected
					9- 18-0	±φ.	0+A +	1 , f , 0	4					0+pt 28j	0, φl + si	1 L L L	0, r+ t	0 σll †	Spin-parity $0^+ r^- == 0$	0 = 1,0+0,0 = 0	2 0+ 0+ 0+ 0	$2i k^{1} \sigma^{ \alpha} + 1 r^{\alpha}$	1 $t^{ \alpha } == 0$	$1 \sigma^{\parallel u} == 2 \cdot 1 \sigma^{\perp u} + k \cdot 1^{+} \sigma^{\mu} + k \cdot 1^{+} \sigma^{\mu}$	-ρ -ν	otal ex
					*0	0	+0	+0	6.				+0	+0) <u>.</u> 0	+0	+0	0	wlo.	10.	. 6 1	2	I 44. I	N I is		
Spin:	sive and massle Pole residue: -(ess sp		Poleresidue: Square mass: Spin: Parity:		?	$k^{\mu} = (p)$, 0, 0, p)	? ?	$J^{P} = \underbrace{\qquad \qquad }_{k^{\mu} = (\mathcal{E}, \cdot)}$	· - Ø?															
1 4 5	((3 (288 Å. 3 + (1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2			3(r, t, 2x, 2t, +2r, 3t, +2r, 3t, +2r, 3t, +1)(2 \(\lambda, \tau\). 3(2 \(\lambda, +t, \rangle \)(2 \(\lambda, \tau\). 2(2 \(\lambda, +t, \rangle \)(1 \(\lambda, \tau\). 1 Even		,	Massles Pole resid				particle $\frac{1}{2} \rightarrow 0$															

М	as	ssiv	e an	d mas	sles	s spectra									
	Spin:	Square mass:		Pole residue: -			.7	Spin:	Square mass:	Poleresidue:			? \	$k^{\mu} = (p, 0, 0, p)$? J $k^{\mu} =$
Odd	1	$\frac{3(12 \lambda - \nu)(2 \lambda + \nu_1)}{2(r_1 + r_4 + r_5)(12 \lambda + \nu + 12t_1)} > 0$	$((r_1 + r_2 + r_3)(12 \lambda. + v. + 12 t_1)(360 \lambda.^2 - 30 \lambda. v. + v. (7r_1 + 7r_2 + 7r_3 - 15 t_1) + 84(r_1 + r_2 + r_3)t_1 + 12 \lambda. (7r_1 + 7r_4 + 7r_5 + 15 t_1)))) > 0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Massive particle	$J^{P} = 1$	Even	1	$\frac{3(2, \lambda + t_1)(2, \lambda + t_2)}{2(2, \lambda + t_1)(2, \lambda + t_2)} > 0$	$\frac{3(r, t^2 + 2^2, t_1 + 2^2, t_2^2 + 4, \lambda^2(6r_3 + 3r_5 + t_1 + t_1) + 2\lambda \cdot (2r_5 t_1 + t_1^2 + 4r_5(t_1 + 2t_1) + 4r_5(t_2 + 2t_1)^2 + r_5(t_2 + 2t_1)^2)}{(2r_3 + t_3)(t_1 + t_2)(12\lambda^2 + 2r_5 t_1^2 + 6\lambda \cdot (t_1 + 2) + 2r_5 t_2^2 + 3t_1^2 + 4r_5(t_1 + 2t_1))} > 0$	Massive particle	$J^{P} = 1 + $ \uparrow \uparrow	Pol	Massless particle e residue: $-\frac{1}{\lambda_{+}} > 0$ arisations: 2	Pole resi Square m Spin: Parity:
Parity: Even		Square mass: $\frac{12.\lambda^2.J.v.}{2v_{i_1}-2v_{i_2}+4v_{i_4}} > 0$	Poleresidue: $\frac{1}{56} \left(\frac{7}{\lambda} + \frac{84}{v} + \frac{4}{(\frac{7}{13} + \frac{27}{14})} \right) > 0$	$e^{\mu} = (\mathcal{E}, 0, 0, p)$ $?$ Massive particle	$f^{p} = 0$	Square mass: $-\frac{2\lambda_1+1}{2\lambda_1} > 0$ Spin: 2 Parity: Odd	Pole residue: $-\frac{1}{r} > 0$	Massive particle	? /	$J^{\mu} = 2$ $A0000000$ $k^{\mu} = (\mathcal{E}, 0, 0, p)$? ? ?	Square mass: $\frac{\lambda.(2\lambda.+:)}{2(2\cdot\cdot.2\cdot\cdot.3+:)(\lambda.+:)} > 0$ Spin: 2 Parity: Even	Poleresidue: $\begin{vmatrix} \frac{\lambda^2 + (2r, -2r, +r,)t, +\lambda, (4r, -4r, +2r, +t,)}{3} \\ \frac{\lambda^2 + (2r, -2r, +r,)(\lambda, +t,)}{4} > 0 \end{vmatrix}$	$J^{P} = 2+$ $\chi^{P} = (\mathcal{E}, 0, 0, p)$? Massive particle	

Unitarity conditions

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