

L M 'E

2022 HΨ b

2022 'E HΨ 'E 1 1' ⇔

↓ γ i 'E HΨ H ↓ L

Ψ 3 4 4 b ⊕ 'E η r

vi G 3 'E b ^ ü

2022 HΨ h b ,

2022 h ,

2022 Û v b 4 ll 'E

“ ” L ∞

ρ η r ↓ z 'E

'P ⇔ η ~ 12.91_ "H 34.51% G

'E 1 ≠ 1.81_ "H 1 28.28% G 'E

1 ≠ 1.68_ "H 38.25% 2022 'E : M

U 4 1,722.82 "H ± M U ρ G

'E 1 ≠ 4 1.98_ "H 1 40.80% ρ 'E i r

,

Û 3 4 ã ü

ρ 'E ~ 1 ≠ h Û 1 1

'E 7HNe ü L i L n 3 ü 4 G ∞ ' U i 1

3 'E h 1 ü ,

Û 'E ~ 69,010.26 "H 171.32% ρ

3 1 ∞ 1 η ∞ 3

1 1 'E b 4 h z L 4 i L

Û ∞

'E ~ 11,865.80 "H 60.15% i G

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9	ψ	
2022 2 21	H H P M P	1 r G F 2 r G L < F L >
2022 4 24	H H P M ñ P	1 r G E <2021 b > 2 r G E <2021 H P b > 3 r G E <2021 F = > 4 r G E <2021 i i > 5 r G E <2021 p L E > 6 r G E <2021 F , > 7 r G E <2021 л a , > 8 r G E 2021 ≠ No i E

		9 τ G E[~] i[~] E[~] 2022 H E[~] ψ E[~] H L G̃ E 10 τ G i[~] 'Y v E[~] δ i[~] k̃ <E[~] > 11 τ G k̃ < ψ H_U † > 12 τ G k̃ < H_U b^L > 13 τ G L < L > 14 τ G E[~] <2022 > 15 τ G₉ E[~] 2021 ψ
2022 5 18	H_U H_U ψ M J̃ ψ	1 τ G E[~] <2022 L : 7/8 > i[~] i[~] 2 τ G E[~] <2022 L : 7/8 W > 3 τ G ψ H_U ψ W : τ H_U 4 τ G₉ E[~] 2022 H_U ψ

		3 τ G 2022 ψ
2022 10 26	H H ψ H M ψ	1 τ G E <2022 >
2022 11 18	H H ψ H M ψ	1 τ G v Hψ β i k <E > 2 τ G E Hψ e Hψ H R 3 τ G E Hψ e Hψ H R 4 τ G E H 5 τ G E 2022 л ψ
2022 12 5	H ψ ψ	1 τ G e E Hψ H 2 τ G e E Hψ λ ψ 3 τ G κ E 4 τ G κ E H H
2022 12 19	H ψ H ψ	1 τ G №л 2 τ G a № л 3 τ G ψ H 4 τ G E 2023 ψ

H 9 ψ ψ = ,
 ρ E Hψ 9 6 ψ i ψ 1
 ψ 5 E Hψ E H E
 ψ = i ψ λ
 G λ H № γ G λ β i r ,

9	Ψ	
2022 1 5	2022 Ψ	1 τ G a N ₀ π 2 τ G Ψ H _U † 3 τ G İ E [˜] 'Y İ k <E [˜] >
2022 5 18	2021 Ψ	1 τ G E [˜] <2021 H _U Ψ b > 2 τ G E [˜] <2021 H _U Ψ b > 3 τ G E [˜] <2021 F = > 4 τ G E [˜] <2021 İ İ > 5 τ G E [˜] 2021 ≠ N ₀ İ E 6 τ G E [˜] İ E [˜] 2022 H E [˜] ı E [˜] H L Ĝ 7 τ G İ 'Y v E [˜] δ İ k <E [˜] > 8 τ G k < Ψ H † > 9 τ G k < H b L >
2022 6 8	2022 H _U Ψ	1 τ G E [˜] <2022 L : 7/8 > İ İ 2 τ G E [˜] <2022 L : 7/8 W > 3 τ G Ψ H _U Ψ W : τ H _U
2022 6 27	2022	1 τ G 2022 L : 7/8 3 : † 3

	ψ	2 τ G : ζ L
2022 9 29	2022 ψ	1 τ G 2022 L : 7/8 ĩ ζ E 2 τ G : ζ L
2022 12 5	2022 7 ψ	1 τ G ν Hψ β ĩ k <E [~] > 2 τ G E [~] H 3 τ G E [~] Hψ e Hψ H 4 τ G E [~] Hψ e Hψ H 5 τ G E [~] Hψ e Hψ 7 H

Hψ ψ ,

E[~] Hψ ψ ψ ψψ λ ψ ω E[~] Hψ L Hψ ψ b

↑ Hψ ψ b ↑ Hψ ψ b ↑ Hψ

ψ b ↑ b H ƒ ĩ

L Hψ = ā E[~] λ ψ η H

1 ψ ,

ρ E[~] Hψ ψ E[~] † E[~]

% ↑ ρ L ĩ Hψ ψ b ↑ τ

τ HNe Ũ z b ρ ψ E[~] ρ

h $\tilde{E}$ H

ν

$\tilde{E}$

$\bar{G}$

2023

$\downarrow z$