REFERENCE APPENDIX

Pace, staking and risk models

ENGLISH

Gaspard Joly · November 2026

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Control calculation of the ladder and pace

The control calculation of the policy comparison uses the binary outcome of one completed cycle. On a win, 2× of the stake is paid, probability 0,485, on a loss gross 0. Expected return 0,485 × 2 = 97%. This is the benchmark for comparing policies; the floor probabilities Tower Rush are taken into account separately.

Common inputs: bank 50,00 EUR, 30 cycles maximum, a common outcome series for all policies, bet on the grid 0,05 EUR, upper bet limit 20,00 EUR, stop-loss 20,00 EUR, take-profit 20,00 EUR. After settlement, both boundaries and the availability of funds for the next bet are checked. If the required amount is above the bet cap or the remainder, the run ends.

Control calculation of the ladder and pace

Policy	Average turnover EUR	Average net EUR	P05 / P50 / P95 EUR	Stop-loss	Shortfall	Bet cap	SE of average EUR
Fixed	44.86	-1.35	-15.00 / 0.00 / 12.00	254/16000	0/16000	0/16000	0.06
2% of remainder	29.75	-0.90	-9.35 / -0.45 / 8.35	0/16000	0/16000	0/16000	0.04
Linear	59.40	-1.79	-23.00 / -0.40 / 16.55	2443/16000	0/16000	0/16000	0.09
Doubling	56.86	-1.76	-22.50 / -9.00 / 21.00	2245/16000	0/16000	7837/16000	0.14

In the linear ladder, start 1,50 EUR, increment after a loss 0,65 EUR, reset after a win. For doubling, the first four bets are 1,50 + 3,00 + 6,00 + 12,00 = 22,50 EUR. The fourth loss would have left 27,50 EUR, and the stop-loss would have stopped the run already before the fifth step with the required bet 24,00 EUR. All four policies are calculated over 16 000 series. SE relates to the estimate of the average, while P05 and P95 describe the spread of outcomes.

With a window of 20 minutes and pauses of 4 minutes, 16 active minutes yield 40 windows of 24 s. Participation at 60% yields 24 paid cycle. With 1,50 EUR turnover 36,00 EUR, expected loss 1,08 EUR at 97% RTP. An accepted bet counts toward the limit until the next action. Reaching the cap is separate from the session limit.

If the clip demonstrates 1 best outcome out of 20 independent ones, and a pre-selected success has p=0,10, the probability of at least one success is $1-0{,}9^{20}$ = 87,8423%. A single win of the selected frame does not measure the chance of repetition. Before the bet, the grid, cap and buttons are known. After settlement, ID and the confirmed gross are known. The animation follows the server state.

GR10 · Amounts at risk

GR10 · Amounts at risk

ID	Parameter	Scope, condition and result
GR10-06	Total amount at risk	Risk of a single bet in the absence of Frozen. After Frozen the protected gross is retained
GR10-07	Outcome class boundaries	Crash, manual Cashout or protected crash determine the log classes
GR10-11	Bet ratio for mean zero	There is no second bet, there is no ratio of the two panels
GR10-12	Expected net result of the selected events	For the binary reference E(net)=−0,03 × turnover. For realized events net per §3

GR16 · Settlement policies

GR16 · Settlement policies

ID	Parameter	Scope, condition and result
GR16-02	Bet change rule	Fixed 1,50 EUR, 2% of the remainder with the first bet 1,00 EUR and step 0,05 EUR, linear +0,65 EUR, doubling after a loss
GR16-03	Basis for comparing strategies	One bank and identical independent outcome series
GR16-05	Planned number of rounds	30 windows per run
GR16-06	Number of runs	16 000 per policy
GR16-09	Bet increase step	+0,65 EUR or ×2; the fixed one does not grow
GR16-10	Insufficient bank policy	A bet larger than the remainder stops the run before acceptance
GR16-12	Stop-loss condition	Bank ≤30 EUR after settlement
GR16-13	Take-profit condition	Bank ≥70 EUR after settlement
GR16-15	Share of busted runs	Shortfall counter shared with cap and stop-loss, §3
GR16-16	Monte Carlo error	SE = SD of the result / sqrt(16 000), values in the table

GR24 · Pace and limits

GR24 · Pace and limits

ID	Parameter	Scope, condition and result
GR24-01	Share of rounds in which a bet is placed	60% of 40 windows = 24 paid cycles
GR24-03	Pauses during the period	4 min of pauses out of 20
GR24-07	Session net loss limit	20 EUR stop-loss in the Monte Carlo calculations
GR24-09	Limit trigger event	After settlement when the balance is ≤30 EUR, before the next bet