Early uncertainty design Uncertainty Effort Payoff Score 10.5 Χ of the し*1=19 00:14:46 P(L) = 0.5 00:14:39 L * 1 = 8 see the result of L/X after each press Study 1 Number of times one pressed the key 2600 2547 2550 2500 2450 2410 2400 2350 2300 2250 Early Later uncertainty uncertainty Later Early <

*The error bars stand for standard errors.

INCENTIVE DESIGNS WITH UNCERTAINTY: KEEP THE HOPE ALIVE



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Effort \rightarrow Score: Score = Effort + e(randomness) Score \rightarrow Payoff: Payoff = Score

Which design is more motivating?

0 cents

*controlling for conversion rates

1 cents

Effort \rightarrow Score: Score = Effort Score \rightarrow Payoff: Payoff = Score + e(randomness)

min)	Explanations	Study Design (between-subject designs)	Result pattern	Findings		Nu	mber of
	Zero aversion? (Study 2-4)	Study 2 - 4: people earn at least something.	later uncertainty > early uncertainty	No evidence supports the zero- aversion account.	5200	_	
	Occurance timing vs. Resolution timing? (Study 2)	3 (early uncertainty vs. later/payrate uncertainty vs. later/percent uncertainty) conditions	All uncertainty conditions: later/percent = later/payrate > early	Evidence supports that the resolution timing of uncertianty, instead of the occurance timing of uncertainty matters.	5200		
	Medium maximization? Distraction effect? (Study 3)	2 (early vs. later) x 2 (uncertainty vs. certain/expected value)	later uncertainty > early uncertainty = early certain/EV= later certain/EV	No evidence supports medium maximization account and distraction effect; the evidence shows that the effect is driven mainly by the later uncertainty condition.	5000 4900 4800		4845
	Magical thinking? (Study 4)	3 (early uncertainty vs. later uncertainty/rate-determined later vs. later uncertianty/rate- predetermined) conditions	All uncertainty conditions: later/later = later/predetermined > early	No evidence supports magical thinking (we tested this in the a third condition with a "sealed fate" setting: predetermine the rate) or other superstitious beliefs such as "tempting fate" and "luck".	4700 4600		
	Hopeful mind?	2 (early uncertainty vs. later uncertainty) x 3(hopeful vs. hopeless vs. control)	to be examined	•••	4500		Early uncertainty



