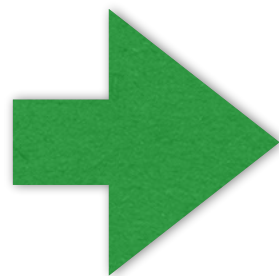# Eclipse Attacks - Delaying Blocks
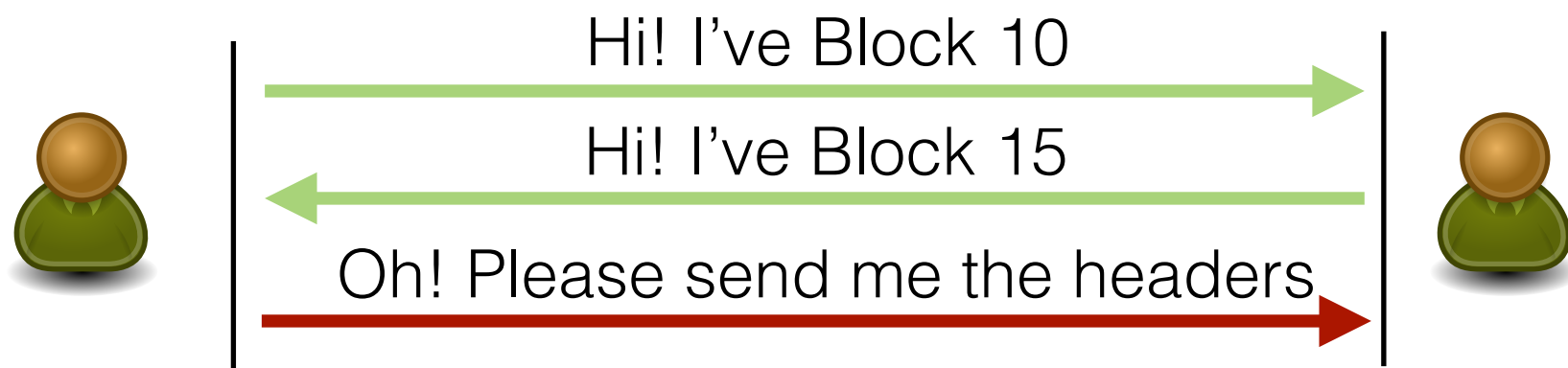
Block delivery time > 20 min
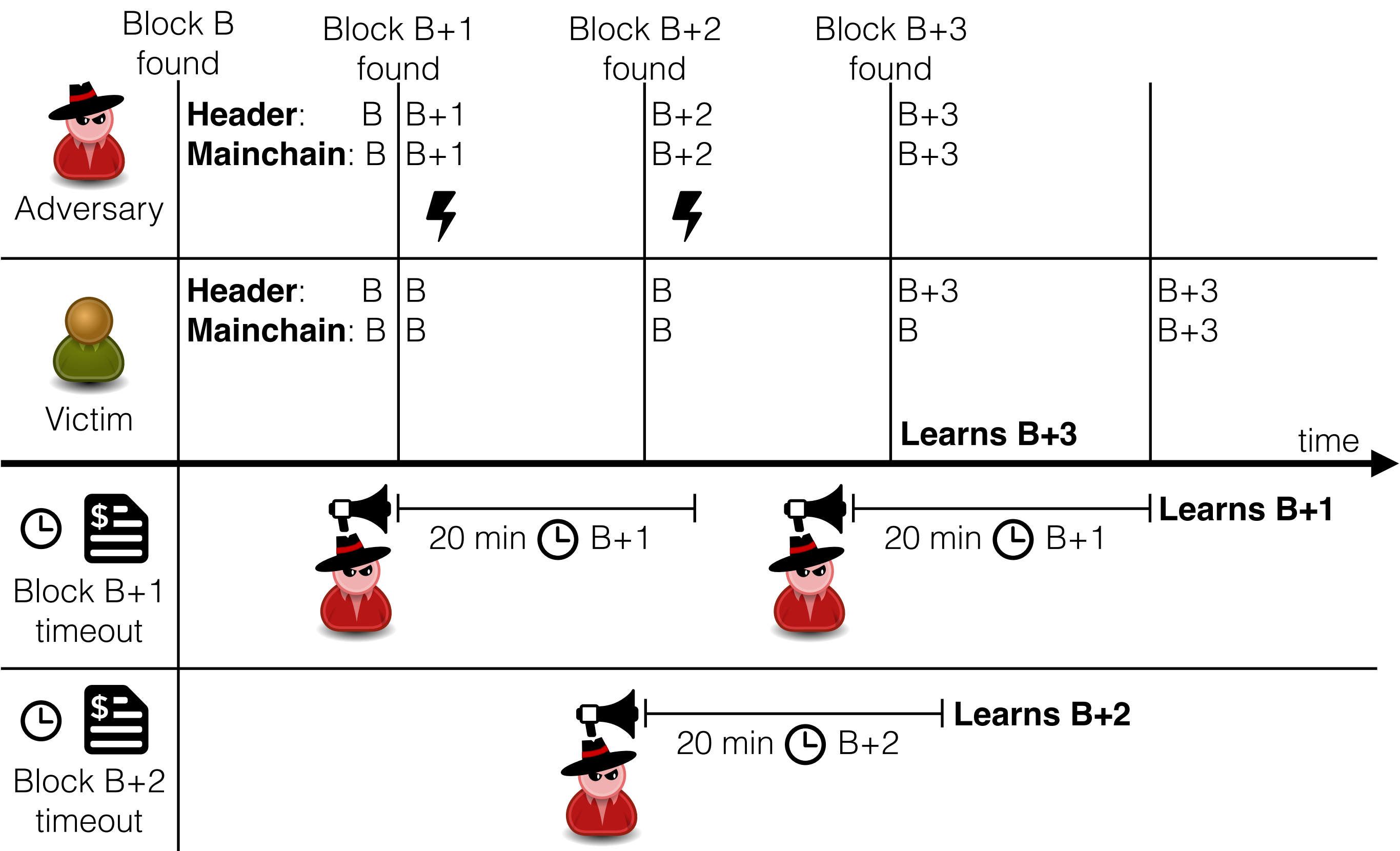
Version message exchange
on connection initiation

Hi! I've Block 10 →
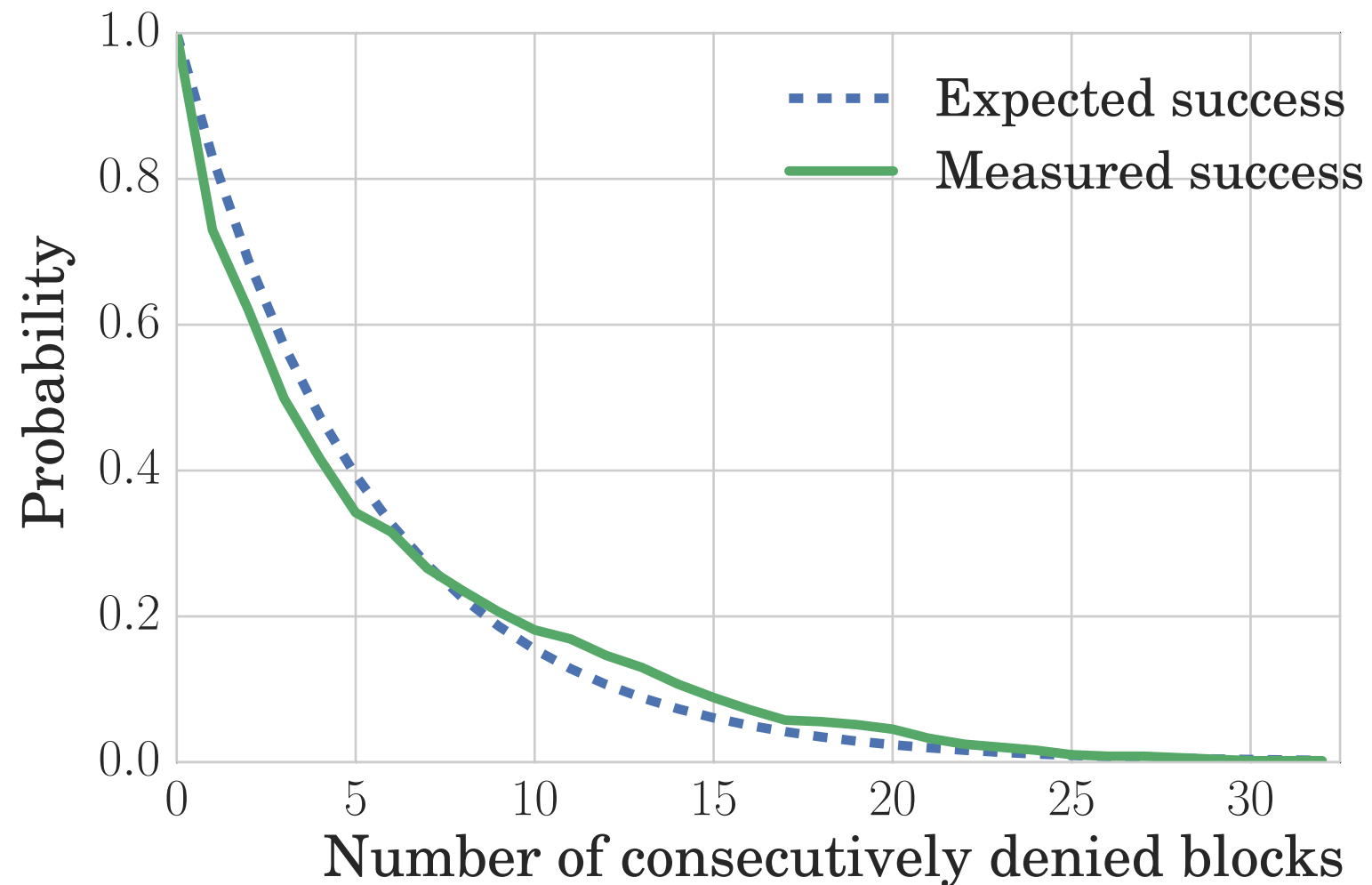
← Hi! I've Block 15

Oh! Please send me the headers →

➡ Occupy all open connection slots
No new connections

• Should perform connection depletion

Extending the block delivery time - Example

	Block B found	Block B+1 found		Block B+2 found		Block B+3 found	
Adversary	**Header**: B	B+1		B+2		B+3	
	Mainchain: B	B+1		B+2		B+3	
		⚡		⚡			
Victim	**Header**: B	B		B		B+3	B+3
	Mainchain: B	B		B		B	B+3
						Learns B+3	

time →

🕐 $ Block B+1 timeout — 20 min 🕐 B+1 — 20 min 🕐 B+1 — **Learns B+1**

🕐 $ Block B+2 timeout — 20 min 🕐 B+2 — **Learns B+2**

3

Experimental validation - Continuous block denial

Probability for N blocks = P^N

based on P = 0.83