Average Spread Metrics for Fake vs Real News Over Time Malicious Hybrid Experiment Average Total Interactions Over Time - Malicious Hybrid Average Views Over Time - Malicious Hybrid Average Total Interactions (normalized) Fake news - Regular user Fake news - Regular user --- Fake news - Malicious user --- Fake news - Malicious user Real news - Regular user Real news - Regular user --- Real news - Malicious user Real news - Malicious user 10 15 20 25 30 35 10 15 20 25 30 35 Time Step Time Step Average Likes Over Time - Malicious Hybrid Average Comments Over Time - Malicious Hybrid Average Comments (normalized) Fake news - Regular user Fake news - Regular user Fake news - Malicious user --- Fake news - Malicious user Average Likes (normalized) Real news - Regular user Real news - Regular user Real news - Malicious user Real news - Malicious user 25 25 10 15 30 35 10 15 20 20 Time Step Time Step Average Shares Over Time - Malicious Hybrid Average Flags Over Time - Malicious Hybrid Fake news - Regular user Fake news - Regular user Shares (normalized) Fake news - Malicious user --- Fake news - Malicious user 0.04 Flags (normalized) --- Real news - Regular user Real news - Regular user Real news - Malicious user Real news - Malicious user 0.02 Average 90.02 -Verage -0.04 -

Time Step

20

Time Step

35