Simulacron-3 20:00 01:00 Day: 2 Track: Science en

Chef: 2433 Lindworm: 5463 Emergency: 112 Security: 110 Heaven: 1023 Speakers Desk: 1020 Info Desk: 1111

Translation (check if available): 8012 Technical Coordinator: 1621

Title: Singing Capacitors and Whining Inductors

Subtitle: A Practical Introduction to Acoustic Cryptanalysis

Speaker: Dan Hagon

Short: In this talk we provide a practical introduction to Acoustic Cryptanalysis using

tools and techniques that are easily grasped and cheaply available. The intention is not to present any new results, but instead the emphasis is on gaining a foun-

dation in the theory of such attacks, so that you will be able to apply them more

effectively in more challenging scenarios. As we shall see, such attacks are an

extension of other types of side-channel attack (timing and power analysis attacks

in particular), with the added promise of bridging air gaps.