

Title: Cube absorption: a few properties, many questions

Speaker: Alexander Wires

Abstract: We can define the natural notion of a cube-absorbing subalgebra to complete the analogy: near-unanimity terms is to pointing terms is to absorption as cube-terms is to cubing terms is to cube-absorption. We might think of cube terms and cube-term blockers as opposing properties, but we can see them as different types of cube-absorption; that is, every finite idempotent Taylor algebra has a subalgebra with proper cube-absorption. This yields related weakened forms of directed Gumm terms and compact quasi-representations of subpowers for any finite idempotent Taylor algebra.