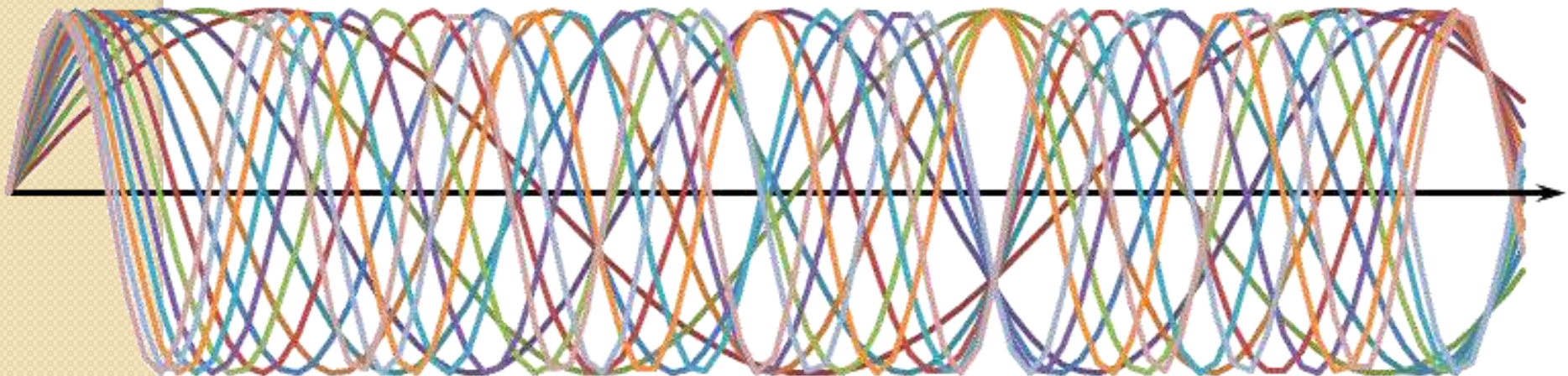# Channel Model Ad Hoc

## Report

Presented by Duane Remein (Huawei)

C h a n n e l    M o d e l    A d    H o c

# Activities

- Held 3 Teleconferences
  - Scheduled on Thursdays 1:00 PM (EST)
  - Average 17 attendees
- Adopted Purpose & Scope statements
- Discussed tools
- Gathering data

# Ad Hoc Purpose & Scope

- ## Channel Model Purpose
  - Purpose 1: To facilitate the evaluation of multiple PHY modulation proposals for use in 802.3bn
  - Purpose 2: To facilitate the selection of a range of PHY parameters within the selected PHY proposal to allow adaption to changing PHY conditions within the coax environment
- ## Channel Model Scope
  - Model should be limited to the minimum set of critical parameters necessary for above purposes.

# Tools

- Discussed Tools
  - Excel – for input and "static modeling"
    - Parametric data tables
    - Quick check tool to assess proposals
  - GNU Octave – if we need to adopt a simulator
  - Results from other tools OK if input consistent with parametric data tables

# Data Gathering

- ## Input from publicly available sources

| Document Title | Source | Date |
|---|---|---|
| HFC Channel Model | ReDeSign | 2008 |
| Digital Cable Network Interface Standard | SCTE | 2011 |
| Data-Over-Cable Service Interface Specification DOCSIS 1.0 Radio Frequency Interface (RFI) | SCTE | 2012 |
| Digital Transmission Characterization of Cable Television Systems | CableLabs® | 1994 |

- ## Data from MSO's (ongoing)

# THANK YOU

Channel Model Ad Hoc