

# IEEE P802.3dj Joint Optics/Logic Track Ad Hoc Report

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# Report

- 2 ad hoc calls since March 2023 meeting
  - 13 April, 27 April
  - 90+ attendees each time
  - 13 contributions
- Next meetings will occur between May and July TF meetings :
  - Will be announced over the track email reflector
- Minutes:
  - [13 April](#), [27 April](#)

# Presentations

## April 27

- "oFEC-based 800GBASE-LR1/ER1 proposal with Synchronous Mapping" presented by Gary Nicholl, Cisco
- "Towards an 800G-LR4 IMDD Specification" presented by Roberto Rodes, Coherent
- "Delay, A History of Defining Maximum Latency (Optical Module Delay)" presented by Jeffery Maki, Juniper
- "Considerations on channel insertion loss for 10 km and 40 km 800G applications" presented by Peter Stassar, Huawei
- "SMF Dispersion Penalty Specification Proposal" presented by Chris Cole, Coherent
- "Probability of CD penalty higher than that predicted by TDECQ measurement at 1305 and 1319nm" presented by Xiang Liu, Huawei
- " Considerations on Reference Receiver for 200G/lane Optical PMD" presented by Guangcan Mi, Huawei
- "FEC\_I Sublayer Architecture Proposal for Type 2 PHYs" presented by Xiang He, Huawei
- "25G & 100G PCSL processing for Concatenated FEC" presented by Lenin Patra, Marvell
- "4x RS Codeword Interleaving Proposal for 200 GbE and 400 GbE" presented by Xiang He, Huawei

## April 13

- "MAC link latency considerations" presented by Matt Brown, Huawei
- "RS Codeword Interleaving Analysis for 200 GE and 400 GE", Xiang He, Huawei
- "SMF Channel Dispersion Penalty Specification Proposal" presented by Chris Cole, Coherent

# Key Themes

- Baseline proposal updates:
  - 800GBASE-LR1 oFEC based proposal
  - 800GBASE-LR4
- Useful technical contributions to help with analysis of baselines
  - Optical baselines:
    - SMF channel considerations (loss, chromatic dispersion)
    - Reference receiver considerations
  - Analysis on next steps in FEC proposals
    - Latency considerations, codeword proposals, interleaving, architecture
  - Review of DELAY parameter usage

**THANKS!**