100GBase-KR4 Channel Characteristics

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Summary: This presentation supplements comment #362, including a suggested remedy.

Background

- Dudek_03_0312 was adopted as baseline in March, 2012
  - Calling out an inclusion of IL, ILfitted, ILD, ILDrms, ICN, Diff RL, Diff-Comm RL, Comm RL, Diff-Comm through response.
  - IL and ICN placeholder were placed in draft
- Comment #58 from July, 2012 Plenary added normative COM for channel characteristics.
  - Deeming several of the missing baseline channel characteristics unnecessary to add.
- Comment #362 at Sept, 2012 Interim states incomplete channel characteristics recommending…
  - informative RL be added to the 93.4
  - no other channel characteristics from baseline be added; IL and ICN placeholder in draft to stay.

Proposed Remedy to comment #362

▸ With editorial license add an informative channel return loss to section 93.4

  ▸ As baseline calls out, use OIF-25G-LR Return Loss

  ▸ Public from
    http://www.oiforum.com/public/documents/OIF_CEI_03.0.pdf

  ▸ **11.2.6.5   Channel Return Loss**

  Channel Return Loss shall be bounded by:

  - $RL(f) >= 12$ dB   for $f_{min} < f \leq f_b/4$
  - $RL(f) >= 12$ dB $- 15 \log_{10}(4f/f_b)$ for $f_b/4 < f < f_b$

  Note: f_{min} is as defined in Table 11-3