



# Channel Model Ad Hoc: Agenda and General Information

Channel Model Ad Hoc Teleconference  
2005 April 20

Charles Moore  
Agilent Technologies  
[charles\\_moore@agilent.com](mailto:charles_moore@agilent.com)



If you are present on today's call, please send me an e-mail indicating your attendance.



# Schedule of Events

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- Teleconference: Wednesday, April 20 (10am PST)
- Teleconference: Wednesday, May 4 (10am PST)
- Teleconference: Wednesday, May 11 (10am PST)
- Wednesday, May 18 (midnight EST)
  - Deadline for requests for presentation time.
- Monday May 16 – Wednesday May 18
  - IEEE P802.3ap Task Force Meeting
  - Austin TX

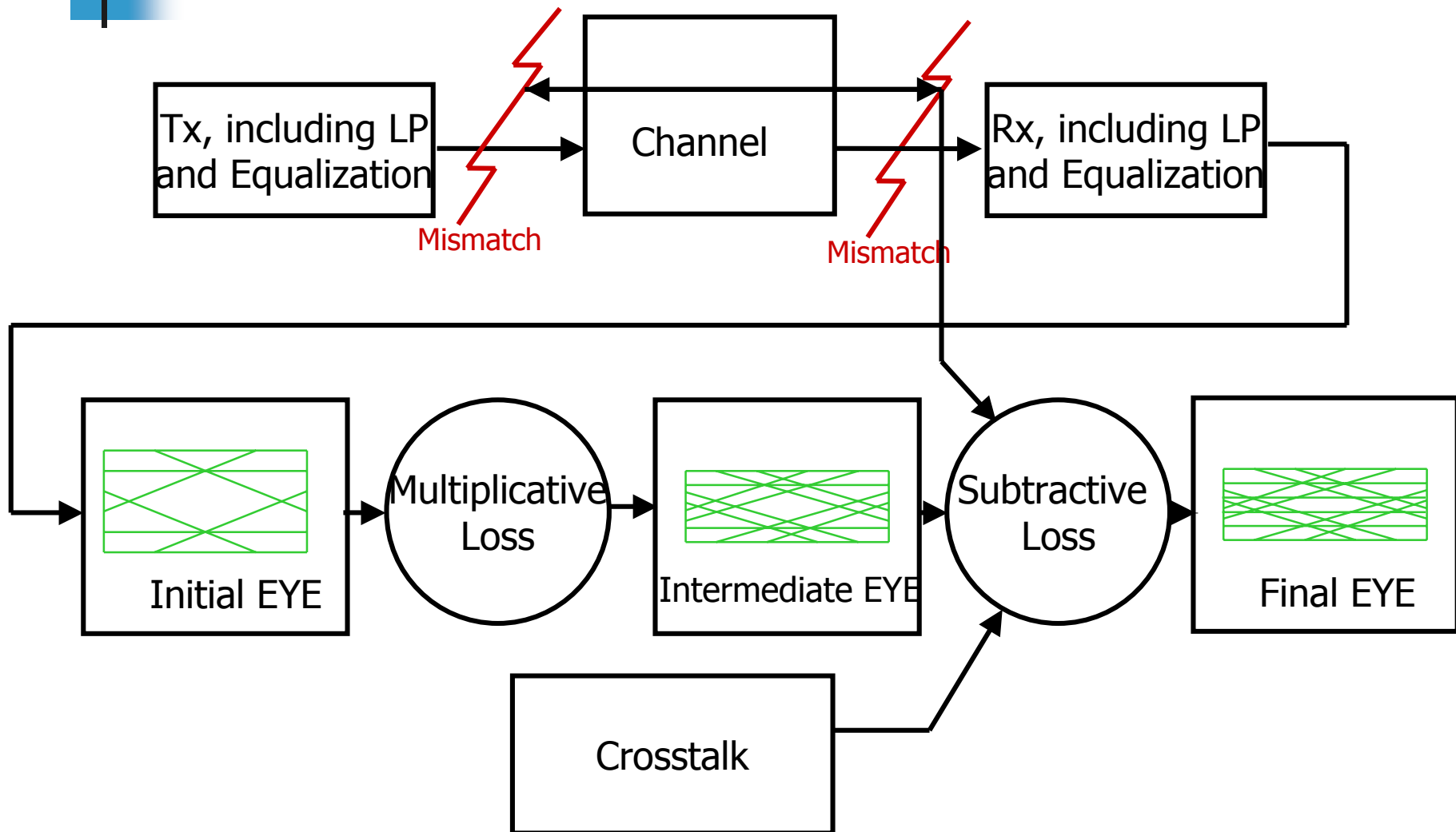


# Meeting Agenda

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- Carry-over items
- New business
  - Link Budget model
  - Mellitz: Informative Model, suggestions for spec numbers
  - Mellitz: Normative Pulse Response, Report Out
- Walk-in items
- Straw polls

# Link Budget model





# Link Budget Continued

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- Initial EYE Show primary Channel Loss, partially corrected by Tx and Rx Equalization
- Initial EYE will not be complete and may only be represented by (some) of:
  1. Amplitude (channel gain)
  2. ISI dependent Jitter
  3. Slopes
- Moore et al (moore\_01\_1104), Popescu, (popescu\_c1\_0205), and Mellitz et al (mellitz\_c1\_0405), have all suggested ways of finding the Intitial EYE but the job is far from finished.



# Link Budget Continued

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- The intermediate EYE comes from the initial EYE after it is reduced in amplitude by various attenuating effects like:
  1. Reflection loss, if not included in Initial EYE
  2. Tx and Rx jitter penalty
  3. Other
  
- What effects go in the initial EYE and which in the “Multiplicative Loss” is part of the “Hybrid model” trade off.



# Link Budget Continued

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- The Final EYE is the intermediate EYE further reduced in opening by directly subtracting (all or some of):
  1. Cross talk
  2. Intersymbol interference not covered in the initial EYE calculation
  3. Rx noise
  4. Rx slicer margin
  5. Duty Cycle Distortion penalty