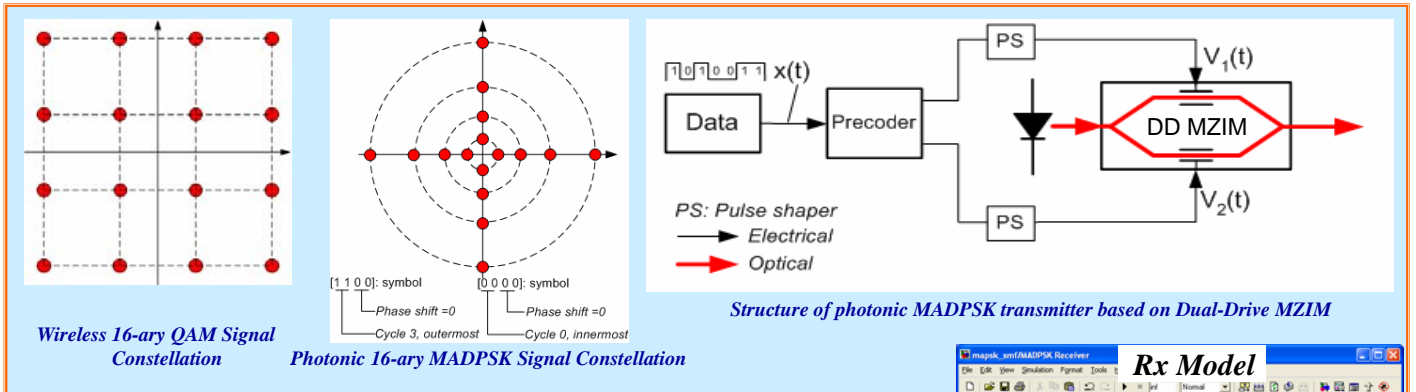


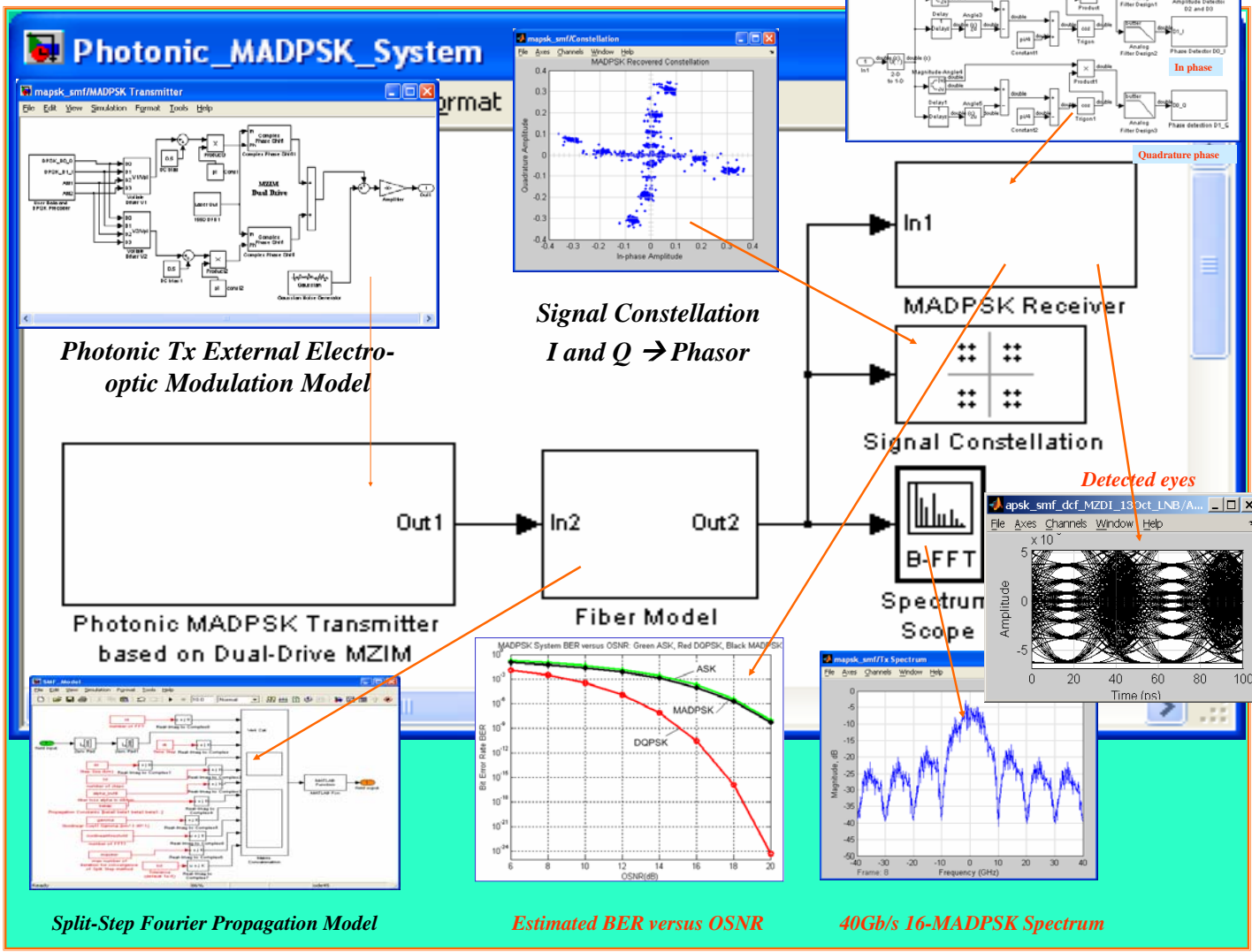
# SIMULATION OF A NOVEL PHOTONIC TRANSMISSION SYSTEM USING M-ary AMPLITUDE- DIFFERENTIAL PHASE SHIFT KEYING (MADPSK) MODULATION FORMAT

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## Models and Results



### Future R&D Directions

- Effect of optical amplitude and phase noise – noise models via joint pdf for amplitude and phase
  - Effect of signal level spacing and nonlinear phase distortion
- Effect of fiber non-linearity and dispersion and compensation techniques
- Multi-channel Dense Wavelength Division Multiplexing generation and transmission
- Demonstration of Optical Transmission Systems