
Wavelength plan proposal

US wavelength allocation:
center wavelength and pass band

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Discussion

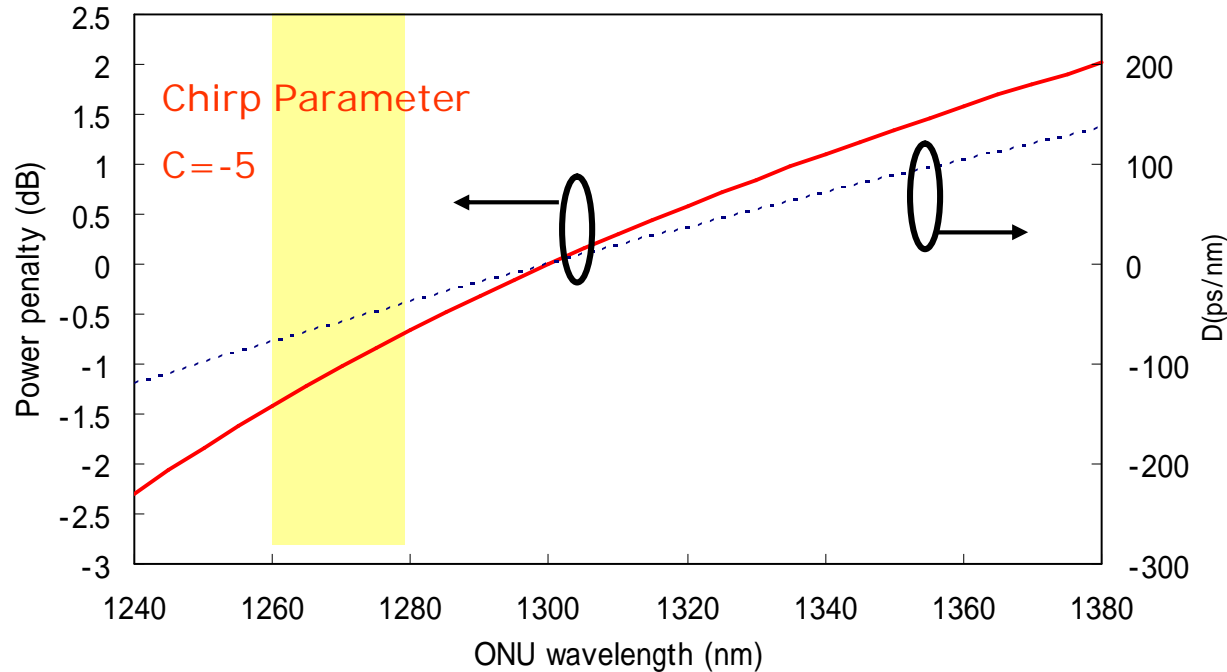
Issues at July meeting

We proposed that a narrow wavelength band is preferable since FP-lazar would not be applicable for all classes of PMD, and 20nm band has been selected at July meeting. A remaining issue for US wavelength is to develop a recommendation on central wave length.

Point of discussion

- Where should US wavelength be allocated within 1.3 μ m?
Shorter or Longer wavelength?
- Studies item
 - Optical fiber loss
Unnecessary to care about loss caused by optical fiber characteristic since it is included in ODN CIL requirement.
 - Dispersion Penalty

Dispersion Penalty at 1.3 μm (DML)



Dispersion penalty calculation (Ref. 3av_0705_saeki_1)

■ Dispersion penalty at shorter wavelength is smaller than one of longer wavelength even within 1.3 μm band.

Proposed wavelength is 1260nm-1280nm

Summary

US wavelength

- Shorter wavelength is preferable due to characteristic of dispersion penalty.
- Proposed wavelength : 1260nm-1280nm