

Panel discussion on NIR protection of 5G system

--Gap between MMW and optical radiation--

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5G and Millimeter wave (MMW) Applications

- Exposure guidelines in MMW region exist but their rationale has not been firmly established compared with lower frequency region.
- It is in part because few applications were found in daily lives.
- There is a “gap” between optical radiation guidelines and MMW exposure guidelines.
- MMW wireless systems are about to be used in daily lives (5G, WiGig, IoT, etc.) .
- MMW guidelines should be reviewed before the spread of MMW applications.

Questions

- What is the critical hazard to provide exposure limit?
- How severe the hazard taken into consideration is?
 - Perception
 - Annoyance
 - Pain
 - Injury
- Reduction factors?
- Averaging time and area?
- Scope of foreseeable use conditions?

Are those levels of protection consistent between MMW and optical radiation?