

## Performance Analysis of SAC-OCDMA System using Different Detectors

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**Abstract :** In this paper, we present the performance of spectral amplitude coding optical code division multiple access using different detectors at different transmission distances using single photodiode detection technique. Modified double weight codes are used as signature codes. Simulation results show that the system using avalanche photo detector can move distance longer than that using positive intrinsic negative photo detector.

**Keywords :** avalanche photodiode, modified double weight, multiple access technique, single photodiode.

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