

# A Method for Registration of Multilevel Intensities of Double Mode Optical Beam

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## Abstract

For the registration of multi level intensities of double mode optical beam with differentiation of influences of separate modes use of 2x2 dimensional matrix of semiconductor sensors is purposed. Mathematical model of photo sensor is brought, and topology and construction of windows as well which will provide semiconductor structures desired properties.

Purposed matrix may be used also in physical computers for processing signals with 8-10 bit/signal density of information in carrying signal, and in optical multimode measuring systems, when light is distributed in inhomogeneous medium [1].

## References

- [1] S. Grigoryan, H. Gulkanyan, H. Karayan *Using two wavelength beams in the optical monitoring systems*. Preprint YerPhI, 1571(7)-2001.

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