コヒーレント光科学セミナーのご案内

インド工科大カラグプール校の Maruthi Manoj Brundavanam 先生が 6 月 20 日-6 月 23 日の日程で本学を訪問中されます。
ついては下記の要領でセミナーを開催いたします。
偏光状態と空間分布の不可分性についてお話し頂きます。
研究室の研究員、学生の皆様もお誘い合わせのうえ、奮ってご参加下さい。

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Coherent Optical Science Seminar on Information Optics

Date: Friday, 21 June 2024
Time: 15:00-16:00
Place: Room #529, East 6 Building, UEC

Speaker: Maruthi Manoj Brundavanam
Associate professor, Indian Institute of Technology Kharagpur

Title: Modulation of Classical Non-separability of Vector Vortex Beams
using Brewster effect

Abstract:
The vector vortex beams are generated by the superposition of two orthogonal orbital angular momentum (OAM) beams having orthogonal polarization states using a stable common path technique. The degree of non-separability of the generated vector vortex beams is controlled by changing the input polarization and Brewster effect using a dielectric prism. We have estimated the linear entropy (SL) of the classical non-separable beams by measuring the reflection coefficients for different input polarization states at each rotation angle of the prism. The shifting of the peak value of SL for different input polarization states at the particular rotation angles of the prism is observed.

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