Workshop on "Chiro-Optical Effects in Nanomaterials"

In this Workshop, we have invited three distinguished researchers from abroad in the field of chiro-optical properties of nanomaterials, which have shown remarkable progress recently. We asked them to give us lectures with focuses on fundamentals relevant to their research topics, rather than reports on the forefront research achievements. We hope that researchers in the related fields, but non-experts of studies on chiro-optical properties of nanomaterials, will consider the relationship between those topics and their researches, and will get some novel ideas of researches, through participating in these lectures.

November 15th (Fri), 2019, 9:10 - 13:00
Osaka Prefecture University, Nakamozu campus, Bldg. B4, Room East K-402

Sponsored by:
Center for Novel Science Initiatives, National Institutes of Natural Sciences
Supported by:
Center for Mesoscopic Sciences, Institute for Molecular Science, National Institutes of Natural Sciences
Osaka Prefecture University
Grant-in-Aid for Scientific Research on Innovative Areas "Nano-Material Manipulation and Structural Order Control with Optical Forces"

09:10 - 09:15
Opening Remarks
Hiromi Okamoto (Institute for Molecular Science)

09:15 - 10:15
"Bio-plasmonics and bio-excitonics with colloidal nanocrystals: Chirality, DNA-origami and hot electrons"
Alexander Govorov (Ohio University; University of Electronic Science and Technology of China)
10:15 - 10:30
Question & Discussion; break

10:30 - 11:30
"Chiroptical activity in inorganic nanostructures"
Gil Markovich (Tel Aviv University)
11:30 - 11:45
Question & Discussion; break

11:45 - 12:45
"Biomaterials characterisation using chiral plasmonic structures"
Malcolm Kadodwala (University of Glasgow)
12:45 - 13:00
Question & Discussion; closing

Contact:
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ワークショップ「ナノ材料におけるキラル光学効果」

このワークショップでは，ナノマテリアルのキラル光学特性の分野で最先端の研究を展開している，3名の著名な外国人研究者を招待しました。ワークショップでは，最前線の研究成果に関する報告よりは，彼らの研究に関連する基礎的知識に焦点を当てた講演を頂けるよう，依頼しました。これらの講義を通じて，ナノ材料のキラル光学特性の専門家ではないが関連分野で研究を行っている方が，自身の研究との関係を考え，研究の新しいアイデアを得る契機となることを企図しています。

日時：2019 年 11 月 15 日（金） 9:10 - 13:00
大阪府立大学中百舌鳥キャンパス B4 棟 東 K-402 号室

主催：
自然科学研究機構 新分野創成センター
協賛：
自然科学研究機構 分子科学研究所 メゾスコピック計測研究センター
大阪府立大学
科学研究費補助金新学術領域研究「光圧によるナノ物質操作と秩序の創生」

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