

大阪府立大学 工学域 電子物理工学課程
第98回電子物理工学セミナー

Date: Monday, 23th April 2018

Time: 15:00–16:00

Room: W103, B4 building, OPU

**The application of "superchiral" nearfields
for ultrasensitive characterisation of chiral media**

Malcolm Kadodwala

Gardiner Chair,
School of Chemistry University of Glasgow,
Joseph Black Building, Glasgow G12 8QQ, UK

The structures of chiral materials, whether naturally occurring such as proteins, or purely synthetic for example liquid crystals, are routinely characterised by spectroscopic techniques based on the differential interaction of circularly polarised light (CPL). The sensitivity of these techniques are inherently limited by the intrinsic chiral asymmetry of CPL. In this talk I will discuss how these limitations can be overcome by the use of nearfields with chiral asymmetries greater than CPL (i.e Superchiral). Examples of the application of superchiral nearfields for ultrasensitive characterisation of biomaterials will be discussed.

電子物理工学課程 図書委員 安田 雅昭