Glenn T. Seaborg Center Seminar

What Is Circularly Polarized Luminescence Spectroscopy For?

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Wednesday, 13 June 2007, 4:00–5:00pm, 70A-3377

Circularly polarized luminescence (CPL) spectroscopy is the emission analog to circular dichroism (CD) spectroscopy. CPL spectroscopy gives information about the chiral properties of these molecules in their excited state. CPL has primarily been focused on studies aimed at investigating the chiral structures and solution dynamics of luminescent lanthanide complexes. Unlike CD, the measurement of CPL is still dependent on the use of home-built instruments that have been designed, developed and improved by a limited number of research groups around the world over the last three decades. Special attention will be given to the various types of applications of CPL aimed at getting quantitative and/or qualitative chiral structural information of selected systems that do not racemize on the emission time scale.

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