

Lecturer : David Lumb

Title: Instrumentation for Space-based Astronomy

Abstract:

Absorption by the atmosphere of certain wavelengths forces the observation of astronomical objects to be carried out in space. Furthermore, even at traditional optical wavelengths the use of space based observatories has transformed astronomy, especially through the ability to achieve low background and to avoid problems associated with "seeing". I discuss instrumentation techniques that have been implemented at a range of wavelengths, and highlight special challenges for detector technologies when operating in the harsh environment of outer space.

ESA- European Space Agency

[David Lumb](#)

IXO Study Scientist

Astrophysics Missions SRE-SA

Directorate of Science and Robotic Exploration

ESTEC

[Keplerlaan 1 2200 AG Noordwijk, The Netherlands](#)

David.Lumb@esa.int

www.esa.int

T +31 71 565 4446

F +31 71 565 5985

RESISTANCE IS USELESS
($R < 1 \text{ OHM}$)