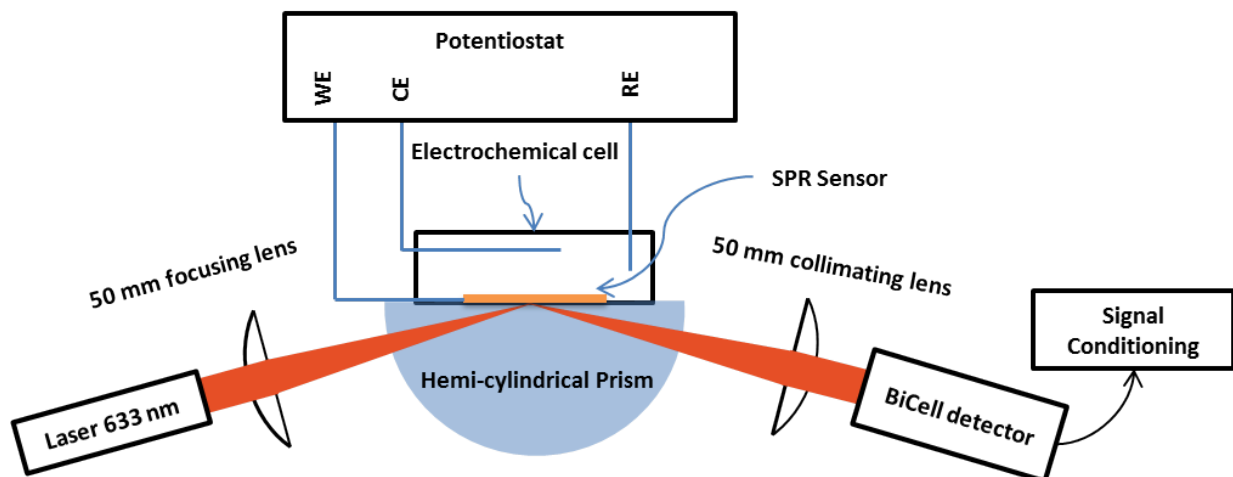




Optics and Photonics Group Lunchtime Seminar

“Sensitivity of the differential intensity surface plasmon resonance instrument”

Sidahmed Abayzeed



12:00pm Thursday 24th November 2016
Lecture Theatre 203 Tower Building
All Welcome

http://optics.nottingham.ac.uk/wiki/Talks_2016



“Sensitivity of the differential intensity surface plasmon resonance instrument”

Sidahmed Abayzeed

12:00pm Thursday 24th November 2016

Lecture Theatre 203 Tower Building

All Welcome

Differential intensity surface plasmon resonance demonstrates a high refractive index sensitivity while features a simple optical system design. This talk presents investigations of factors that influence the detection limit of differential intensity surface plasmon resonance system. A novel approach for calculating the responsivity and the noise of the system will be presented. The system sensitivity to dynamic signals will be demonstrated by presenting the detection of transient voltage signals at gold-electrolyte interface.